27th Annual Series.



1st Edition 15,000.

JAMES CARTER AND CO.'S GARDENER'S AND FARMER'S VADE-MECUM.

JAMES CARTER & Co.,

Fellows of the Royal Horticultural Society of London and the Royal Agricultural Society of England, &c.,

SEED MERCHANTS AND NURSERYMEN.

Offices and Seed Warehouses,

237, 238, & 261, HIGH HOLBORN, LONDON, W.C.

Nursery.

CRYSTAL PALACE NURSERY, FOREST HILL, SYDENHAM, S.

Seed Farms.

EAST HOUSE FARM, DEDHAM, ESSEX, & THE SEED FARM, St. OSYTH, ESSEX.

** It is particularly requested that all letters be addressed to the Holborn Establishment to avoid delay.

A SUPPLEMENT.

IN THE FORM OF A COMPLETE LIST OF BEDDING AND OTHER PLANTS, WILL BE PUBLISHED ON THE IST OF MAY, AND WILL BE FORWARDED FREE OF CHARGE, AND POST PAID, ON APPLICATION.

THE AUTUMN SUPPLEMENT OF DUTCH AND CAPE BULBS WILL BE PUBLISHED AS USUAL.

POST-OFFICE ORDERS TO BE MADE PAYABLE AT THE "HOLBORN OFFICE."

CHEQUES TO BE CROSSED "LONDON AND WESTMINSTER BANK."

January 1862.

Price One Shilling.

[Entered at Stationers' Hall.]

Gift of Earl Blough November 1957

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ADDRESS TO OUR CORRESPONDENTS.

WE have much pleasure in submitting to your notice the Twenty-seventh Annual Issue of our GARDENER'S and FARMER'S VADE-MECUM, which we feel assured, upou examination, will be found to far surpass any existing work of a similar description; we bave spared neither time, trouble, nor expense in its compilation; and as the eost of the present far exceeds that of previous issues, and as we cannot be expected to furnish the majority of the Gardening World with a useful book of reference, free of charge and post paid, we have decided to affix the price of One Shilling to the present edition in self-protection: we have observed in past years that many persons have applied for the Vade-Mccum, and when obtained, have refrained from purchasing; however, as beretofore, all our Customers

will receive a copy gratis.

Under the Column headed "GENERAL OBSERVATIONS," we have endeavoured to give as complete a description of the best soils for, mode of culture, &c. &c., of nearly 3000 Species and Varieties of Flower Seeds as the limited space will permit. We wish to draw special attention to the "CALENDAR OF GARDEN OPERATIONS" (commencing at page 73), which we think will be found an unrivalled production of its kind. We have also appended A COMPREHENSIVE ORIGINAL AND PRACTICAL GUIDE FOR FARM OPERATIONS OF EVERY DESCRIPTION (commencing at page 95), which we doubt not will prove a valuable assistance to the Amateur and Professional Farmer and the Agricultural Emigrant. The entire work has been re-written, and the greatest care taken to eliminate errors; but should any accidentally have crept in, we shall esteem it a favour to be informed of it. All the information is entirely original and practical, and we trust will prove of essential service alike to the Professional as to the Amateur Gardener.

Such of the Seeds as ripen well in England bave been grown at our own Farms (vide page 120; and to obtain those which require a warmer climate to perfect their ripening, our senior Partner has travelled nearly the whole of Europe, and has personally inspected the growing crops of all the principal Florien turists in Italy, France, Switzerland, Germany, &c. &c.; and as we purchase only from the original producers, we are enabled to recommend our Seeds with greater confidence than it is in the power of any other Firm to do. The Miscellaneous List of Flower Seeds will be found to contain all the best varieties in cultivation, all deserving Noveltics, and many choice and rare Seeds, which we have received from our various Correspondents in the East and West Indies, America,

Australia, British Columbia, &c. &c.

DIVISIONS OF COLOURED PAPER.—Many of our Correspondents having intimated to us that, in consequence of the yearly increasing size of the VADE-MECUM, it became a matter of some little difficulty to refer to the articles in the body of the work, we have printed the whole of the VEGETABLE and AGRICULTURAL DEPARTMENT upon DARK-COLOURED PAPER, and the NOTICES OF NEW FLOWERS, ILLUSTRATIONS, &c. upon LIGHT-COLOURED PAPER, by means of which easy reference is at once obtained; and we trust that this alteration will prove of service our many Correspondents.

QUALITY OF THE SEEDS.—We have much pleasure in stating that the quality of Seeds is unusually good

this season, as the late harvest has been one of the hest known for many seasons; and it is searcely necessary for

us to advert to our invariable practice of seuding out genuine Seeds only.

"CARTER'S FLORAL ILLUSTRATIONS" are a scries of truthful drawings of the Floral Novelties of the day,

respecting which further particulars will be found at page 119.

SEEDS FOR EXPORTATION.—We beg leave to say that, being large Exporters to all parts of the world, we are in a position to make selections suited to any climate, and will pack them in such a manner as to ensure a safe transit: and all orders that we may receive we will take care to despatch at the proper season.

"PARMENTER'S PREPARATION FOR THE DESTRUCTION OF INSECTS."—This Preparation has been found

to act with the most unerring certainty; and we can confidently recommend it as the best destroyer of Insects on

plants ever offered to public notice (for particulars see page 112).

"SPERGULA PILIFERA."—This charming substitute for Grass for Lawns is increasing in reputation, and we are enabled to offer it at a very reasonable figure (vide page 118).
"BEDDING, GREENHOUSE, AND STOVE PLANTS."—A complete List of Bedding and other Plants grown at

our Sydenham Nursery will be published on the 1st of May, and forwarded free of charge, on application. In conclusion, we beg leave respectfully to prefer a few requests. First, that with each Order the full name aud

address be given, that we may be enabled to keep our accounts as correctly as possible; Secondly, that with each remittance our Invoice or Statement be returned; Thirdly, that no Post-Office Order be sent without a name, as the Post-Office Authorities forbid their officers from informing the Payec of the name of the Remitter; and Fourthly, we earnestly request that no Money in Coin be sent through the Post, as, besides risking the loss of the money, it offers temptation to the Post-Office Servauts.

We wish also respectfully to intimate that, except in case of urgency, all orders will be executed in rotation as received; and having considerably enlarged our Premises, and increased our Staff of Assistants, no unnecessary delay will take place: but we would strongly advise that orders be sent early. In returning our sincere thanks for

past favours, we solicit a continuance of the same, with your kind recommendations.

We have the bonour to be,

Nos. 237, 238, and 261, High Holborn, London, January 1862

Your very obcdient Servauts,

JAMES CARTER AND CO.

PART I.

KEY TO THE COLUMNAR SYSTEM OF ARRANGEMENT.

1st Column. - THE LINNEAN CLASSES.

The Linnean Classes are founded on the Sexual Organs.

	a. Stamens (male	organ	us) egi	ual.	
N	o. 1. Monan'dria		1 8		n
	2. Diandria		2 s	tame	ns
	3. Triandria		3	,,	
	4. Tetrandria		4	,,	
	5. Pentandria		5	"	
	6. Hexandria		6	"	
	7. Heptandria		7	,,	
	8. Octandria		8	,,	
S.	9. Enneandria		9	,,	
SST	I0. Decandria		10	,,	
Classes.	11. Dodecandria	12 to	19 S	· in t	the
•	cup				
	I2. Icosandria 20 base	or n	iore S	• o n 1	the
	13. Polyandria, n	uany	Slame	ns	
	b. Slamens				
	14. Didynàmia, 2	long	, 2 sh	ort	
	I5. Tetradynàmia	a, 4 ,	, 2 ,	,	

c.	Stamens united in sels.	
	o. 16. Monadelphia, 1 set	
	17. Diadelphia, 2 sels	
	18. Polyadelphia, many	801
,	0	

- d. Compound Flowers (Aslers, &c.).
 19. Syngenèsia
- c. Slamens on the style. 20. Gynandria
- f. Male and female separated. 21. Monœ'cia, on one plant 22. Diœ'cia, on different plants
- g. Male, female, and hermaphrodite Flowers on one or different plunts. 23. Polygàmia, many marriages
- h. Flowers wanting, or incomplete. 24. Cryptogàunia, hidden marriages (Ferns, Mosses, &c.).

2nd Column.—THE LINNEAN ORDERS.

The Linucan Orders are founded on the Sexual Organs, Seeds, Pods, or Fronds.

The Dimical	Orders are founded on th
a. Orders founded on female orgo	
No. 25. Monogýnia	. I style
26. Digynia	. 2 styles
27. Di-pentagýnia	2 to 5 ,,
28. Trigynia	. 3 ",
29. Tetragynia	. 4 ,,
30. Pentagýnia	5
31. Hexagynia	. 6 ,,
32. Heptagýnia	7 "
33. Decagynia	10 "
34. Dodccagynia	19 "

• • • •	•
b. On the Stamens (
36. Monan'dria	. I slamen
37. Diandria	. 2 slamens
38. Triandria	. 3 ,,
39. Tetrandria	. 4 ,,
40. Pentandria	. 5 ,, . 6 ,, . 7 ,, . 8 ,,
41. Hexandria	. 6 ,,
42. Heptandria	. 7 ,,
43. Octandria	
44. Enncandria	. 9 ,,
45. Decandria	. 10 ,,
46. Dodecandria	. 12 ,,
47. Icosandria	. 20 ,,
48. Polyandria	many "
e. On the sels o	•
-	
49. Monadelphia, 1	set

- d. Slyles and slamens united. No. 50. Gynandria, male and female
 - e. Male and female separale.
 - 51. Monœ'cia, on one plant 52. Diœ'cia, on different plants
 - f. On the Polygamy.
 - 53. Polygàmia æquàlis, or Equal Polygamy
 - 54. { Polygàmia superflua Superfluous Polygamy
 - 55. Polygàmia frustrànca Frustraled Polygamy
 - 56. Polygàmia necessària
 - 56. Necessary Polygamy
 - 57. Polygàmia segregàta
 Separaled Polygamy
 - g. On the Seeds.
 - 58. Gymnosper'mia
 - 59. Angiosper'mia, in a capsule
 - h. On the Pods.
 - 60. Siliculòsa, a small pod
 - 61. Siliquòsa, a long pod
 - i. On the Fronds, &c. 62. Filices, Ferns.

3rd Column.—THE NATURAL ORDERS.

The Natural Orders are founded on Structural Affinities; and the plan of numerical reference adopted in the present work will prove of essential service to the Amateur in forming, by comparison, an opinion of any plant in this Catalogue which may be unknown to him: for instance, Angallis, Cyclamen, Dodecatheoa, Primulu sinensis, and Auriculu belong to the same Natural Order, "Primulacee," No. 160; consequently, should Dodecatheon be unknown, the knowledge of one or more of the others would greatly assist in forming an opinion of it. In making comparisons, however, the height of the plant should be considered: for example, the Aster and Daisy belong to the same Natural Order, "Composite," No. 98; and at first sight there does not appear much resemblance between them, there being so much difference in the size of the flowers and the height of the plants.

[3rd Column continued in next page.]

3rd Column.—THE NATURAL ORDERS (continued).

112. 12. 12. 12. 13. 14. 15.	Dassee 107 Inflace
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4th Column.—Native Country. gar. var. garden variety.

5th Column.-Hardiness

h. hardy—plants for the apen borders. hh. half-hardy—such as require a hol-bed. t. tender—pot plants, require shifting. f. frame—require protection till May. g. greenhouse—greenhouse plants. s. stove or hothouse—stove plants.

A. Annual-last one year.

B. Bienaial—last two years.
P. herbacous Percanial—last three or more.

S. Shrub, or uader-shrub.

Pb. Perenaial bulb, corm, or tuber.

T. Tree.

Application: hA. hardy Annual; hB. hardy Biennial; hP. hardy herbaceous Perennial; hS. hordy Shrub; hPh. hardy bilhous Perennial; hT. hardy Tree; hhA. half-hardy Annual; hhB. half-hardy Biennial, &c. &c.; tA. tender Annual, &c.; fA. frame Annual, &c.; gA. greenhouse Annual, &c. sA. stove Annual; sB. stove Biennial; sP. stove Perennial; sS. stove Shrub; sPh. stove bulhous Perennial. 6th Column.—Colour of the flower. The following are the principal abbreviations:

state crimson. a. ash-grey. spot. spotted. ptd. painted. dark.ap. apetalous. stra. straw. p. purple. div. diverse. az. uzure. peh. peach. blue. fish. flesh. sul. sulphur. gn. green. nk. pink. blk. black. violet. grey. ğу. variegated. va. ro. rose. brown. while. bft. buff. lem. lemon. saf. suffron. yellow. scarlet. car. carmine. s. scarlet sil. silver. y. yellowish. mul. mulberry. ein. cinnamon.

Example: d. b. dark blue; h. w. & y. blue, white and yellow; l. r. light red; ro. li. rosy tilac, &c. &c.

7th Column.—Usual height of the plant in feet; trai. trailer.

8th Column.—Usual month of flowering: 1, January; 2, February; 3, March, &c.; 3-5, March to May, &c. &c.

9th Column.-Price per Packet. No smaller packets can be made than those marked in the Catalogue.

TIME OF SOWING .- Hardy Annuals, February till June, and in Autumn; when sown early, many of the Annuals flower in May. Hardy Biennials and Perennials, March till June, and in Autumn. Half-hardy Annuals, &c. in February till May, on a moderate hot-bed. Many of the Biennials and Perennials marked hh frequently stand the winter without protection. The half-hardy Annuals may also be sown on a warm border early in May. The tender Annuals, as Balsams, &c., require a moderate hot-bed and re-potting to bring them to perfection. See also Calendar of Operations, page 73.

The Greenhouse Climbers marked ** may be planted in the borders in May.

- * Dwarf Plants proper for the edgings of beds. ** Ornamental Climbers.
- † Usually flower the first year, if sown early.

sp. species; var. varietas; pl. pluria, many; ex, from.—lf. leaf; fr. fruit.

The dots | ... | ... | ... | indicate a repetition.

GERMAN FLOWER SEEDS

IN CHOICE ASSORTMENTS.

The Seeds are warranted to be of first-rate quality.

Chinese or German Aster.

CULTURE.—Sow in the middle of March or the beginning of April (according to the season) in cold frame, or in pans in the Greenhouse in a good rich compost: the seed should not be sown too thickly, as the plants require in pans in the Greenhouse in a good rich compost: the seed should not be sown too thickly, as the plants require much space to make growth: keep the lights on until the seed germinates, and, if necessary, shade. As the plants increase in size, more air may be given, until they become strong enough to bear the lights off altogether in the daytime in favourable weather. Transplant when the plants are strong enough, say about the middle or end of May; earth up round each plant from time to time, as the roots have a tendency to work their way out of the ground; water frequently with liquid manure, eare being taken not to have it too strong.

Outilled Aster

					Q	uilled	Aster.		
	unnes	siignij	y renexe	d, so as to	o form a sort	of guar	e the appearance of quills or tubes; the outer ring is 1 petal; height from 1½ to 2 feet; habit branching; ties, and for the borders in the Flower Garden.	som with	a
No. 1. 2.	. 12 extr . 12	ra fine r do	varieties	Quilled G do.	erman Aster, se do.	parate do.	smaller packets	3	0 6
					Globe	-flower	red Aster.		
	conar	us me	mostly o centre, a s are req	so as to 1	d resemble the form a half-ba	e above, ıll. Thi	excepting that the flowers are larger and gradually s is the sort usually grown for Exhibition purposes	raise whe	ed ro
No. 3.	. 12 sple 12	ndid va do	rictics n •	ew Globe (do,	German Aster, do.	separato do,	smaller packets	$\frac{3}{1}$	6
					Pyr	amida.	Aster.		
	The receiv feet.	e beauti ed its n	ful large larue fro	e flowers ap m its resen	ppear on this /	later nea	rly of one height, with few side flowers; has most propyramid; some blossoms are quilled; height from 2	bab } to	ly 3
No. 5. 6.	12 very 12	fine va do	rietics I	Pyramidal do.	German Aster, do.	separate do.	smaller packets	$\frac{3}{1}$	$_{6}^{0}$
					French	Variet	ies of Aster.		
21. 6	they I may be in Ap Frene 12: the Spring to siph care be proposited a very large Fleur bloom of the in dis plants	ave take forms or il, as a haster has will g and soons, &ceing take ritions are veruinge an as the Pivoim other to tinet ecare onle	cen prize en prize en by pl a backgr s, raised form a Summer c. &c. i en to lif of the i y large: d full, a precedir e. The P oles a ba o tho ce blours— y half th	s with ther anting two anting two anting two cound or of from seeds wery lastin by making f this plat a ball of following petals vering: the person of the Chrysanth ae height.	on at their response tetter on at their response or three rows centre, as the contre, and showy go carly sowing and brothmost a semi-etals are entired Asters to Imbriquée. The contre con	rs from cective look of Glances of Glances on ayo, or 10, bed for its of the Asta h plant, nged in ut slight ball. Ly reflex rn their is petals. If and iquie; t	lants in Greenhouse or Conservatory, for bedding pur Correspondents in various parts of the country, stating al Floricultural Exhibitions. A very effective bed or r liolus, "French seedlings from gandavensis" (see pagible; next to which, several rows of transplanted plan and for an edging, plants of the dwarf varioties Nos. the Autumn. The same ground may be rendered gay with quick-growing Annuals as Nemophilas, Collinsias, ters may be left on the seed-bed and transplanted in and to water well when planted. Nos. 7, 8, 9 & 10 ed distinct colours:—Fleur Perfection. The blossoms of thy reflexed. Fleur Bombée. The flowers of this variety are reflexed. Fleur Bombée. The flowers of this variety are red: produce more side blossoms than the other var petals towards the centre, and a flower not quite is of these form themselves exactly like tiles, one on the flowers are similar to the preceding varieties, are the flowers are similar to the preceding varieties, by	g the ibar of the state of the	at nd ?), of or he p- y; in sso sso all he d
No. 7.	24 supe 24	ro vario do.	cties Fre	nch Aster, do.	separate	•••••••		0	0
ο.	12	do.		ao. do.	ao		smaller packets	5	0
10.	12	do.		do.	ao		smaller packets	$\frac{\partial}{2}$	6
11. 12.		do. do.	dwarf do.	do. $do.$	do		smaller packets	5	0
	-				40		Smaller Dackels	-	υ

Bouquet Aster.

This plant deserves its name, for each plant is so voluptuously covered with bloom that the green of its foliago is scarcely visible: almost every plant forms itself into a perfect bouquet: height from \(\frac{a}{4} \) to 1\(\frac{1}{4} \) foot: highly ornamental in pots.

No	. 13.	12 t	eautiful	varieties new	Bouquet	Asters, senarate		ĸ	0
	1.4	10	do.	7		- rotation of other tree	***************************************	U	U
	I'I.	بندا	uo.	do.	do.	do.	smaller packets	9	C
							**************************************	-	v

Dwarf Aster.

These are from 8 to 12 inches in height, very free-flowering, useful for edgings and pots. No. 15. 16 beautiful varieties new Dwarf Aster, separate

GERMAN FLOWER SEEDS (continued).

New	Crown	OT	Coc	kad	e	Ast	er.
-----	-------	----	-----	-----	---	-----	-----

These are quilled Asters with two colours on each flower—the centres being white, with a broad marg some dark colour around it: presenting the appearance of a cockade: they can be recommended as being	ve	oi ry	
useful for houquets.	S.	u_*	•
No. 18. A sharm pariotic-nem Grawn Asters, separate.	مت	U	í

New Giant, or Emperor Aster.

This variety has sprung from the Pyramidal Aster, and for size and shape is unsurpassed. It bears only a few flowers on a robust, strong stem, from which the side-spronts grow in the form of a candelabrum. In favourable cases it produces five flowers, of which the chief blossom is four inches in diameter. Notwithstanding its size, all its flowers are of an equal height.

No. 17. 3 splendid varieties Emperor Aster	, separate	***************************************
	Targo C	folloctions of Asters

Large Conections of Material		
No. 18. 93 varieties of Aster, comprising Nos. 1, 3, 5, 7, 11, 13, 15, 16, and 17		

Ten-week or German Stocks.

Sow in the early part of March in pans near the glass, or in a frame filled with vegetable loam mixed with one-sixth of river sand to within 4 inches of the lights, so that the young plants may be as near the glass as possible and not drawn up weakly; level the soil nicely, and slightly sprinkle with water; then scatter the seeds evenly, about four to the square inch, giving another slight sprinkling of water; then cover the seeds with about $\frac{1}{6}$ inch of the same compost finely sifted. Keep the lights closed for a few days and shaded from the sun, gradually giving air as the plants progress until the end of April, when they may be transplanted to pots or groups in the open borders. Stocks may be transplanted several times with advantage in the earlier stages of growth, the shift tending to give them a more dwarf and compact habit.

Last Spring we supplied a Collection of each of our Imported German Stocks to the Royal Horticultural Society of London, for trial in their Gardens; a report of the results will be found in the "November 1860" Number of the Society's Proceedings, and we think that their account of the Seeds we supplied from our general stock will prove gratifying to our readers:—Extract from the Society's Report.—"Notwithstanding the unfavourable season, a very good bloom was obtained. It was found, however, that so little fixedness of nomenclature or even of classification had been hitherto attained, that a detailed report would have been altogether useless, and the Committee came to the conclusion that its attention might be most usefully directed towards making an effort to remedy the evils just referred to; by endeavouring to group the various forms into definite sections. The groups which have been adopted may, it is hoped, be approved and employed by English growers. The seeds were in this case sown on April 9th, in frames. The plants were 'pricked out' and hardened off in the usual way, and were finally planted out for flowering on a prepared south border. They were examined and reported on during the first and second weeks of August, while in the height of their bloom." The classification proposed for the various kinds of annual Stocks, which were the only ones brought under the notice of the Committee, is as follows:—

[As far as the Season would permit, we have included in each assortment the varieties recommended by the Royal Horticultural Society.]

Ten-week or German Stocks.

In this group the plants grow about a foot in height; the habit is dwarf, compact, and branching below, and the inflorescence consists of a longer central spike and shorter lateral ones. The choicer kinds in the collection falling under this head belong to two subdivisions, one of which has been called "large-flowered," in contra-distinction to those in which the blossoms are of the usual or average size.

FLOWERS OF USUAL OR AVERAGE SIZE.

		smaller packets smaller packets	5	0
·No.	FLOWERS ABOVE THE AVERAGE SIZE. 25. 6 superh varietics Large-flowered German Slock, separate	smaller packets	2_1	6

Dwarf or Miniature Ten-week.

This group has the habit and characteristics of the Dwarf German, but the plants are dwarfer, averaging about 9 inches in height, and they are a'so more branched. The variety sent as Dwarf Crimson was considered to be one of the finest and most useful varieties in the whole collection. This c ass of Stocks will be found very useful for pot-culture. The best varieties were—

GERMAN FLOWER SEEDS (continued).

GERMAN FLOWER SEEDS (continued).		
Dwarf or Miniature Ten-week Stocks (continued).		. d.
No. 27. 6 splendid varieties Miniature German Stocks, separate	. 2	6
T	8 1	6
Branching or Pyramidal Ten-week. The plants in the varieties referred to this section are taller than the Dwarf German; they attain to an height of a foot and a half, and they are also more diffusely branched. Among the Annual Stocks the once distinguishable by their height and more loosely branched appearance. It is to this group that "Intermediate," applied to several distinct forms, appears properly to belong. The variety called Branching proved to be remarkably fine—ecrtainly one of the finest in the collection.	ey ar the to	e at erm
No. 29. 12 very fine varieties Branching German Stock separate 30. 12 do. do. do. smaller packet	e 3	0
Autumnal Stock.		
No. 31. 12 very fine varieties Autumnal German Stock separate 32. 12 do. do. do. smaller packe.	e 3	0 6
Wallflower-leaved Ten-week Stock. This group has the characteristics of Dwarf German, but the leaves are glabrous instead of heary. The other material difference.	ero is	1 110
Branching Wallflower-leaved. This group has the character of the Pyramidal or Branching, but with the leaves glabrous as in the Walcaved.	llflow	ver-
SPIKE-PLOWERED WALLFLOWER-LEAVED. This has a narrow unbranched or very shortly branched spike-like inflorescence. No. 33. 12 finest varieties Wallflower-leaved German Stock, separate	0	0
34. 12 do. do. do. do. do. smaller packet		
Winter or Queen Stock. No. 35, 12 extra fine varieties Winter Stock, separate 30, 12 do. do. smaller packet		
Imperial Stocks.		
These Stocks are extremely handsome, tall, robust, branching, Perennial Stocks, and usually bloom sever in the course of the year. No. 37. 10 splendid varieties Imperial Stock, separate		
38. 10 do. do. smaller packet New Cape or Giant Stock.	s 2	6
No. 39. 6 finest varieties New Cape or Giant Stock, separate	. 2	6
Brompton Stock		
No. 40. 12 splendid varieties Brompton Stock, separate	. 2	6
No. 41. 74 varieties, comprising Nos. 21, 25, 27, 21, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	. 18	0
42, 40 do, do. 24, 26, 28 and 30	. 6	6
Antirrhinum or Snapdragon. Of this long-established and favourite flower we offer a fine collection, and as it is raised very freely free blooms for many months in the year, and exhibits much variety of colour, it is one of the best Perennials		
for general cultivation. No. 43. 12 extra fine varieties of newest Antirrhinum, separate.	-	
German Balsams.		
Balsams may be sown from the beginning to the middle of April, in pans, or on a slight hot-bed in a li loam and vegetable compost, covering the seed about a 3 of an inch, keeping the soil moist, but not wet. W	hen	the
plants have formed the second pair of leaves, they may be transplanted, four round the edge of a 6-inch pot, a dually hardened off for transplanting out of doors; or they may be planted in a cold pit, 4 inches apart, as	ma g near	;ra- tho
glass as possible, giving more air as the season advances until June, when they may be turned into the open the warmest situations being the most suitable. If for pot-culture, they must be divided and transplanted int pots, shifting once or twice into larger pots, picking off the flowers in the earlier stages of their growth to give vigour to the plant, and watering freely in dry weather. Dorage Balsan.	borde o sin	ers,
1½ to 2 ft. high, strong branching habit, profuse bloomer, suitable for Conservatory and general Flower in summer.	Gard	len
No. 44. 12 splendid varieties Double Balsam, separate Camellia Balsam.	2	6
More erect in habit than the Double; flowers the size of the Rose Ba'sam, and spotted with white like the C "Queen Victoria," and a cut flower might be easily mistaken for a Camellia. No. 45. 12 newest varieties Camellia Balsam, separate		
Rose-plowered Balsam. 11 to 2 ft. high, with large rose-petaled very double blossoms. No. 46. 8 beautiful varieties Rose-flowered Balsam, separate	. 2	0
MINIATURE OR DWARF BALSAM. 1 to 14 ft. high, similar to the Double, useful for edgings.		
No. 47. 12 finest varieties Miniature or Dwarf Balsam, separate 48. 8 selected varieties Double and Camellia Balsam	3 2	0 6

GERMAN FLOWER SEEDS (continued).

		2	JEKWAN .	L TO M RIK	SEEDS (continued).			
			PIC	OTEE AND C	ARNATION.			
		These choice a	nd deliciously scent	ed flowers are cor	stantly rising in repute, and our varied co	llections	aı	re
No.	49.	50 splendid varieti	es of German Pic	otee and Carns	tion, 5 seeds of each, separate	13	2	U
No	50	19. superh new para	etics of German Coo	kscomb)MB.		3	G
1.0.	00.	22 supero new cui	***************************************	IIM OD EVEL	RLASTING FLOWER.			
		mi d				r which	pu	r-
. '		og convenirs for th	he decoration of Ma	ansoleums; sow m	near, and transplant to open contests in the	,		
		preservation, cut	he flowers when upo	on the point of ope	ning.		0	c
No.	51.	12 finest varieties	of Helichrysum, sepa	rate	ning.		ک	U
					T TTTT (17)			
No.	52.	12 finest prize vari	icties of English Hole	lyhock, scparate .	LYHOCK.		5	0
No	53	19 heautiful variet	ies of Inomæa or Co	nvolvulus major, se	parate		2	G
140.	50.	12 Octavely at Carto	too ty apontum .	LARKSP	TTD			
4"		701 T. J.	form the builliant on	James and motter a	wind form is an admired ornament to the g	eneral fl	ove	er
		1 (1	ain alar in almm	ma on un bode i gliot	in ha sawii ili sailay loalii. Seeu sayeu iloii see	occur pinn	1110	74
No	54.	12 extra fine varie						
2.0.	55.	10 do.	Dwarf Stock-	flowered Larkspur,	separate		ئند 1	6
42	56,	6 do.	Tall	do. do.	do,		ì	Ğ
							-	
0.		1.40		MARIGO	LD.	,	2	G
No.	58.	12 finest selected ve	vrictics of German N	larigolds, separate			_	U
				ואווייינים	ΤΔ		lan	. 4
		Petunias presen	it great variety of co	lour and profusene	ss of bloom, and are sweetly scented, and as be	four mo	mil	lie lie
					and, during fine seasons, bloom for three or d grown in a mixture of loam and leaf mould.	1000 2010	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.10
76.7	r0	successively: succe	bed best when sown o	n sngnt not-bed an	tt grown ma mixture of rount und tour ne		3	G
No.	59.	12 ocautijut variet	tes of 1 countd, separ		TO NOTE OF THE PARTY OF THE PAR			
		em 111	1 7 0 1.1	PHLOX DRUM	the continuously: the Phiox is very compact	in habit	ลา	ıd
		- Magathan and of	ilia boet dinningle and	we sow in well-	aranied bots in inne not-beet, priek on in bot	cs, and v	vho	en
		fit not separately.	ме best Annhais gro . and turn out in the	middle of May in	to deep well-stirred soil.			
No.	60.	12 extra fine variet	ics of Phlox Drumm	anan senarate			3	G
				PERENNIAL	PHLOX.			
		Handsomo haro	ly Perennial; heigh	t from 3 to 4 feet,	with large heads of richly coloured blossom.	(3	G
No.	61.	12 finest new variet	nes of Perennial Pub	ox, separate	·····			
				DOUBLE P	OPPY.	(2	c
No.	62,	12 superb varieties	of Peony Poppy, sep	arate	OPPY.		ب	U
				DODUTT A				_
		These plants gr	ow close to the grou	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6.11 bloom the cartle appears covered will ric	hly-colo	urc	æ
		blossoms : they a	ro of great use for (eovering sandy bar	iks and rock-work: the addition of lime rubbi	sn and b	urı	nt
		earth is beneficial	: scarcely any wate	r is required.			2	
No.	63.	12 beautiful variet	ics of large-flowered	Portutaca, separate			_	
				SALPIGLO	ssis.		41.	0.71
		Autumn-bloom	ing plants, with lar	blassams deligat	aly round and mottled, of a rich ververy appe	arance;	ын	вy
							2	
No.	64.	12 beautiful variet	ies of newest Salpigle	ossis, separate				
				SCABIO	US.		2	c
No	. 65.	10 splendid varieti	es of large-flowered	Scabious, scparate .			ت	6
				O TET T T A TEY	WED			
		The Wallflowe	r is neculiarly valua	1.1 C 24 le le	density and fragrance; and the great care w	hich has	bee	en
		bestowed upon it	is culture has prod	need the most sat	isfactory results, as the following collections	will pro	au	ce
		flowers fully equa	d in form to the fine	st Double Stocks.			5	0
No	66.	12 superb varieties	of German Wallflor		smaller p	ackets	$\tilde{2}$	Ğ
	67.	12 do.	ao.	uo.				
			ZINNIA	. ELEGANS, S	lingle and Double.	v effectiv	ve :	in
		The single Zin				of "6 co	lou	r's
		beds or general n	nixed borders: we na	tye now for the mis	entire of a fine Autumn will bloom magni	ficently.	11	re
		of double-flowered	a varieties, separate,	a as the frest Aur	and that has been introduced for many years.	•		
No	68	12 splendid variet	ies of Single Zinnia					6
1	69.	6 do. do	Double	do. separate .			5	U
1								

JAMES CARTER AND CO.'S GARDENER'S VADE-MECUM FOR 1862.

FULL EXPLANATIONS OF THE ABBREVIATIONS AND GENERAL SYSTEM OF ARRANGEMENT WILL BE FOUND AT PAGES 1 & 2.

THE ACCENTS.—The only accents employed are the long or open (') and the short or close (').

The long accent (')—as (à) in màte, (è) in mète, (i) in mite, (ò) in mète, (ù) in mùte, and (y') in my'.

The short accent (')—as (á) ln mát, (é) in mét, (í) in díg, (ó) in dóg, and (y') in phy'sic.

In giving orders it is preferable to mention the numbers without the names; but as the numbers are changed every year, it is absolutely necessary to say that they are taken from Catalogue "1862."

MISCELLANEOUS FLOWER SEEDS.

			-								The second state of the second
Example	(—) indicates a variety. e: No. 93. "Acacia (do- lia) nova," or new variety acia dodoniæfolia.	Linnean Class.	Linnean Order.	Natural Order.	Native Country.	Hardiness and Duration.	Colour of the Flower.	Height in Feet.	Month of Flowering.	Price per Packet.	GRNERAL OBSERVATIONS.
Sc	ientific Name.			4				1			
No.				r)				fect		s.d.	
70 Abel	lmósehus gigánteus			137	India	gS	у.	3	6-9	6	Usual greenhouse treatment.
	oma angusta			83	E. Indies	sS	p.	10	8-9		Sow in light sandy soil in hot-bed.
72 Ab1	ronia umbellata			143	California	hhA	ro.	6	7-9	4	Charming Verbeua-like Annual.
73 Abut	tilon esculentum			137	Brazils	hhS		6		1 0	1)
	floribundum						у.		• • • •	1.0	These flowers are extremely beautiful, be
	hýbridum	•••	• • •	•••	hybrid				• • • •	1 0	ing richly veined and striped, of a delicat
76	marmoratum			•••			stri.		0 10	1 0	wax-like appearance: they succeed wel
77	pulchellum		•••	•••	N. S. Wales		w.	8	8-10		out of doors in summer, if planted ou
	venòsnm striàtum	1		•••	Brazils		stri.	1 -	7-9		against a south wall. Sow in hot-bed, grov
79	var. Beranger		•••		gar. var.	••• [•••		I	$\begin{bmatrix} 1 & 0 \\ 1 & 0 \end{bmatrix}$	in peat and loam, and prune back to a fev
	var. Duc de Malakoff	•••				•••	1:			li ö	buds every year.
81	vitifòlium		51	129	Brazil		li.	5	3-5	4	K ,
	eia albieans			132		gS	W.	10	6-9	1 0	
83	acanthocarpa			•••	N. Spain	sT	pa. r.	20	7-8	6	
84 85	arábica argyrophylla			•••	E. Indies Swan River	gS	w. y.	6	4-5	1 0	
86	armàta				N. Holland	go	y.			$\tilde{3}$	
87	Bartheriàna						•••			Ğ	
88	cæsia			•••	E. Indies		•••	15	5-6	6	
89	coccinea				gar. var.		pk.			1 0	
	eultriformis	1			N. S. Wales		у.		4-6	4	
91	dealbata				V. D.'s Land			4	3-6	4	
92	dodoniæfòlia				N. Holland			6	4-6	4	
93	— nòva			•••	gar. yar.		•••			6	This tribe of handsome Shrubs has long been
94	Douglàsi			•••	N. Holland			5	4-7	6	celebrated for its great variety and adapta
95	Drummondi				Swan River			4		1 0	bility for every purpose of garden decora
96	cbúrnea	1 1			E. Indies	l		5		6	tion, either in doors or out of doors. Al
97	elàta					sS	w.		5-6	6	the Acacias are remarkably fine in foliage
98	exeelsa				•••	gS	у.			1 0	and in this respect are unsurpassed by any
99	falcàta	 			N. S. Wales			6		6	other class of Shrubs. A. coccinea, lo
	farnesiàna				St. Domingo	gT		15	6-8	3	phantha, and longifolia are the handsomes
	ferruginea			• • • •	E. Indies	sS	w.		4-6	6	in foliage : the bloom of eoeeinca resemble
	grandis			•••	N. Holland	gS	у.	6	2-5	6	that of armata in form, but is much large
103	glandulòsa			•••	N. America		w.	2	5-7	6	and of a rich pink colour, and it is one
104	glomeràta			•••	0.0.33	·· <u>·</u>	у.	6		6	of the finest Acacias grown. A. aruiat
	lieteroclyta			•••	C. G. Hope	gT.	0.	15	7-8	6	and grandis being the most compact in habit
	Houstòni				Vera Cruz	gS	р.	10	5-7	6	are the best adapted for general pot-culture
107 108	ixiophy'lla	•••		•••	Swan River	3.7P	y. ro.	$\frac{2}{20}$	8-9	3	A. Julibrissin is hardy and elegant, with
108	Julibrissin lanuginėsa		•••		Levant N. Holland	hT	то.	6	3-5	6	tassel-like tufts of rosy flowers. Previous to sowing, soak the seeds in water
110	La Trobei		••••		India	gS	5.		5-6	6	at 120° for six hours; then sow in hea
	latifòlia			•••	V. D.'s Land		у.	5	3-5	6	in sandy peat: but when the plants are
	leptophy'lla				S. America	sT		20		6	well established, use mostly loam.
	leneocéphala			•••	***	gS	w.	5	4-6	6	The country was morely tours
	longifolia				N. S. Wales	50	y.	6	3-5	6	
115	longissima glauca			•••				4	5-6	6	11
116	lophantha				N. Holland			6	5-7	3	
117	- Neumanni	1			gar. var.		•••			6	
118	— speciòsa			•••	•••					- 6	
	melanoxylon				V. D.'s. Land		•••	8	4-6	6	
120	platyptera			•••	ludia					6	
121	pulehella			•••	N. Holland		у.	4	4-7	6	
122	rotundifòlia							6	5-6	6	
	Serissa		1		E. Indies	gT	w.	20	5-7	6	
123 124	Sonhoræ		· · ·		V. D.'s Land		y.		4-6	6	

Scientific Name.	L.CI.	L. 0.	N. O.	Native Country.	H. & Dur.	Col.	Hght	M. of Flow.	Price	GENERAL OBSERVATIONS.
To.		-					fcet		s.d.	
25 Acacia sp. ex India			132	India	gS	у.	10 4	4-6	6	For description and remarks on the cultivati
26 stipulāta		•••	••••	N. S. Wales		•••	5	4-6	6	of the various kinds of Acacia, see precedi
27 tenuifòlia 28 xylophylloides			•••	C.Good Hope			6	5-7	1 0	page.
29 Acanthus mollis	14	58	63	ltaly		p. & w.	3	7-9	3	Stately herbaceous plants; succeed best in go
30 spinòsus		<u></u>				•••			3	loam.
31 Achillea Eupatorium			98	Caspian Sea		y.	2 div.	7-8 div.	1 0	Sow in sandy loam. Usual stove treatment.
32 Achimenes, mixed	3	98	$\frac{120}{123}$	S. America Spain	sPb hA	div.	uiv.	6-7	3	Ornamental grass; garden soil.
33 Achnodonton Bellardii 34 Achras Sapòta	5	25		S. America	sT	ap. w.	30	5-9	6	Usual stove treatment.
35 Aconitum album	13	28	162	Pyrenecs	hP	у.	4	6-7	3	Showy hardy Perennials: grow in any go
36 lycoctònum				Alps			3	7-8	3	garden soil; also under trees.
37 Napellus	1:0			Europe	.::.	Ъ.	1	5-7 6-10	3	1{
38 Acroclinium roseum	119	34	98	Swan River	bhA' 	ro. w.		0-10	3	Everlasting Flowers, very pretty.
39 album 40 Adenocarpus telonensis	110	45	132	gar. var. E. Indies		y. & w.	_	5-8	6	Same culture as the Cytisus.
41 Adenóphora coronàta	5	25	87	Siberia	ก็ใช	b.	2	5-7	6	Bell-flowered plants; will grow in any go
42 suavèolens	1	1		•••		pa. b.		6-8	6	garden soil.
43 Ægle Marmelos	13	§	75	E. Indies	sS	w.	6	7-8	6	The Bengal Quince: usual stove culture. The plant from which wheat was produced.
44 Ægilops cylindrica	23	3	123	Hungary	hΑ	ap.	1	6-7	3	
45 Æthionèma cordifòlium	$\int_{1.9}$	101	103	Levant		pa. b.	1	6-7	3	Good garden soil.
46 Buxbaumi 47 Agcràtum cærùleum	19) 5.3	98	W. Indies	hlιΛ	1. b.	ï	6-9	3	17
48 cœlestinun nànum	- 1		1	gar, var.	****		1		4	Well-known bedding plants, of long dura
49 lloustonianum		1		S. America	,	b .	11	6-9	3	in bloom: the colour of the Agerat
50 11ndsoni	••	• •••		,,			ï	• • • •	3	bluish lilae, forms an admirable cont with the more brilliant Verhenas and G
51 mexicanum			1	Mexico	•••				3	niums. Sow on heat in the early spri
52 — album 53 — nànum albiflòrum				gar. var.		W.	1		6	prick out and transplant in May to the b
54 — rabrum				'''		r.	i		6	where they are to bloom: they flour
55 — nanum cærûleum		.				b.	3		6	freely in any good garden soil.
56 odorátum				Mexico	•••	•••	1:;		3	12
57 Agrostis dulcis		- 1	123		hΛ	ap.	1	6-8	4	The Agrostis rank high among the Or
158 elegans			• • • • •	Europe N. America			:::	•••	4	mental Grasses from their delicate
159 laxiflòra · · · · · · · · · · · · · · · · · · ·	- 1			Europe					4	graceful growth, and are very useful
161 · pulchella		- 1		Russia					4	Winter or Summer Bouquets. A. nebu
162 plumòsa		.		Europe					4	The Agrostis will grow in any good gar
163 retrofraeta - ·				N. Holland				•••	4	soil.
164 vertieillata			1.77	S. Europe	hT		20	7-8	6	Leaves admirably adapted for Silkworms.
165 Ailanthus glandulòsus 166 Alchemilla conjuncta			179		լ ու	w.	1.2		3	1)
167 Alfrèdia cernua			98				Ĩ	6-7		
168 Allium azùreum			7.1		իթ			5-7)
169 fràgrans -			·	W. Indies]	w.	1	9-10		
170 Moly			٠	S. Europe		y.	2	6-7 5-6		
171 Victoriàle			19	Austria C.Good Hop	o bbS	. ".	6	4-5		
172 Aloc fèrox 173 Alonsòa incisifòlia			178		hhA		2	6-10		
174 grandiflora	- 1	- 1]			1			3	Sowin slight hot-hed in sandy soil, and p
175 Warszewiczii									3	out at the end of May.
176 — compacta				gar. var.	337		1		4	l J
177 Alstræmèria aurantiaca			65		fl't			0-8 9-10		
178 brasiliensis 179 chilensis, mixed		-		Brazil Chili	hPt	r. & y	•			
180 Pelegrina	,			Peru	fl'i	stri.	i	6-9		
181 trícolor	1			Chili		w. p. y		1	6	A. chilensis is adapted for rockeries.
182 Van Houtti				hybrid	1:::	div.	div		1 0	16. 31.1
183 Althea cannábina	1	6 4	8 137	S. Enrope	hP	p.	6	6-7	6 6	garden soil.
184 – narhonense 185 Alyssum Benthàmi	1	5 6	0 10	Europe	li.A	y.	i	1-5		A maritimman or Sweet Alyssum is too
186 marítimum	ı	- 1		1 20 1 1		w.	1	7-1	0 - 3	known to need comment. A. saxatile of
187 saxátile				1 0	hP.	4	11	4-5	3	pactum, a new variety of the present year, is
188 — compactum				gar var.		·	34.		1 0	
189 Wiersheeki	.			Candia	1,:::	J:		6-5	$\begin{pmatrix} 3\\3 \end{pmatrix}$	
190 Amaranthus bicolor 191 — Tehinensis			0 64		_ հհո∄		. 2	6-8		some, which renders them invaluable for
191 fehinensis 192 speciosissimus	-			China E. Indies		var. lf		100		ducing effect as centres of beds and the b
193 trícolor									3	ground of borders.
194 Amaryllis, new species			5 65		hPb		1	4-5		Grow in saud, loam, and peat.
			4 98		hA	y.	1			
195 Amblyolèpis setígera										
195 Amblyolèpis setígera 196 Ambròsia mexicàna 197 Amethystea eærùlea	2	21 3	$\begin{bmatrix} 0 \\ 5 \end{bmatrix} 13$	Mexico 0 Siberia		g. b.	13			

	CA	ı, IX	1 12	K A	ND CO. 5 G	MIND	Civilian a	9 V 2	IDE-	MEC	, 0	M POR 1002,
Scientij	ic Name.	3	. C.	N. 0.	Native Country.	H.& Dur.	Col. of Fl.	Hght.	M. of Flow.	Price.		General
No.			_					feet		s. d.		
199 Anagallis i		- 1	- 1	160	Nepaul	hA	b.	1	5-9	6	1)	These flowers are
200 frutice		- 1	• • •	•••	Moroceo	hhP†	r.	•••	6-10	6	Ц	their long dura
	elli Breweri	- 1	•••	•••	gar. var.	***	d. b.	•••	•••	6	Ш	as bedding plan with a mass of l
202 — Er				•••	***		w. & b.	•••	•••	6	Π	in hot-hed in th
		••	·;·	•••	•••	•••	r.	:::		4	П	harden off, and
	ge red	•	•••	••••	•••		d. b.		I	4		into borders and
	O		•••			***	d. r.			6		vases, &c. A. I
	ionfo di Firenze .	- 1	• • •	:::	•••		pa. b.			6	П	commended by
208 Anagy'ris				132	Spain	hhS	y.	9	4-5	6	13	
209 indica			•••		Nepaul					6	Ţ	Sow in a little he
210 Anchusa a		5	•••	81	S. Europe	hΑ	b.	13	6-9	3	1	
211 gigán		ı	•••		•••			4		3	ĺ	Useful and ornam
212 itálica		ı	•••		•••	hP†	r. p.			3	}	the open borde
213 panie		- 1			Madeira		ъ.	2	5-6	3	1	the open norde
	ervirens	اا		ا ا	Britain			13		3	L)
215 Andry'ala	tennifòlia :	19	53	98	Crimea		у.	1	7-8	3	S	low in the open bor
216 Andromed				110	N. America	hS	w.	2	5-7	6		ood garden soil.
217 Andropògo				123	Jamaica	sP	ap.	4	7-8	6	- Ic)rnamental Grass.
218 Anémone		13	35	162	Enrope	hPh	w.	1	6-7	6		
219 eoron		•••	• • •	•••	Levant	1:::	div.		1-12			T1
220 eanad			•••		S. Enrope N. America	hP	ь.	-;-	6-7	6 6		These are among
	oniàna -	••••	•••	1			w.	1 2	1::	6	1	of our spring t
222 Hallè		•••	• • •	1	Switzerland		ր.	ï	4-5 6-7	6		common gard
	outàna		•••		Siberia	•••		1	5-6	6		ally grown from
			•••		Siberia		w.		3-0	6		after the seed
		•••	•••		N. India		w.	13	5-6	6		keep shaded
226 rivul: 227 sibíri		•••	•••		Siberia		1	1 1	6-7	6		place: thin an
228 stellà		•••		1	Official		•••	4	10-7	6		piace : viiii aii
229 virgi		•••		1			1			1 6		
230 Annôna s		•••		68	S. America	sT	w. & g	. 20	}	6	ĺ	Custard Apple.
231 Anòda Di				137	Mexico	hA	li.	13			- 1	Pretty Annuals o
232 Wrig								1	1	6		hloom.
233 Anomath		3	2:	128	C. Good Hope			1	5-9	6	1	Sow under glass in
234 Anthemis				1 98	Chili	hA	у.	1	6-7	6		١
235 arábi			١		Arabia	1		\		6		Showy flowers, g
236 chia					Chili			1	1	0		soil.
237 purp	itrea						p.	\		6		J
238 Anthoxar	thum gráeile			5 123			ap.	2	4-5			Ornamental Grass.
239 Antirrhin		14	5	9 175		hP†	div.	2	6-9]
	icest mixed		·-		gar. var.	•••			. •••	1, 6		
	ıs albımı	ļ			•••		W.	1		1 (- 1	These flowers are
	– nanum	·•·		· · · · ·		•••		1		1 9		name of Snat
	icolor		.∣…	1	•••	• • •	w. & c		1 '		- 1	serviceable of
	Brilliant				•••	•••	s. & W	1	1	1 9	- 1	varieties will l
	aryophylloides	1	1	- 1	•••		str.					same season if
)elila Firefly		١٠٠		1		ro.& w		-			compact beds.
	alathee	1	• ••	- L		1	s. & y			1 8		fied comprise
	phir	4	•				y.	'' ::	1		ś	tion, and to th
	ourpre superbe						μ.	"	- 1	1 7	1	very ornament
251 -1	apillon				1	:::	s. & v			1 4	3	in every respec
	Roi des Feux				1		s. c.	``\		1 4	ì	, ,
253 — s	triatum novum)					stri.		1		5	j
	thes monspeliensis			5 74		hh	. 1	-∏i		7 (5	šow in good garde
255 Apolloch	lamys Bellardieri			1						1 (;	Columbine. T
256 Aquilègi		11	3 3	[0]16			b. & v	v. 1.	1 5-0		6	varied genus of
	ndensis		. .			a		2			6	the amount o
	yophylloides			•••	gar, var.				. 4-	- 1	5	when fully es
259 form	iòsa									' 1	6	stand frost w
	rans		٠.	٠٠	. Himalaya		1 0		1 -		6	abundance of
261 glai	dulòsa	ļ.,	- -	٠. ٠						' 1 .	6	them general
262 hyli	rida atrolilàcea		.		gar. var.			. 2	;		6	glandulosa arc
	eaerúlea		-	•• ••			1 0	. ;:			6	he strongly r
264 sibí	rica	- 1		•• ••	Constanta			1	- 1	1	6	has the most
265 Sk	inneri	1.							- 1		6	and yellow, a
	diflòra	1.		•• ••		•••	_	1		'	6	sandy soil und
	atropurpùrea gàris Durandi	1.	- 1	•• ••	_			1.3			$\frac{6}{3}$	mat: in April
	rarie tiuraniii	- 1		•• ••		•••	3 17				3	A. caryophylle
268 vul												
268 vul 269 —	atrolilacina		-1		1	•••				1		
268 vul 269 — 270 —	atrolilacina alba			٠			W.				6	of the Double
268 vul 269 — 270 — 271 —	atrolilacina					1	w. flsh.					

L OBSERVATIONS.

re very beautiful, and, from ation in bloom, are valuable nts: each plant covers itself blossom. Sow in sandy loam he middle of February, pot and at the end of May turn out d edgings forsides of baskets, Napoléon and Eugénie are rethe R. Horticultural Society.

eat in common garden soil.

mental plants, will do well in lers in any good garden soil.

orders.

ng the earliest and prettiest blossoms. A. coronaria, the den Anemone, is too well ed comment, but is most usuom the bulbs. Sow, any time d is ripe, in sandy loam, and until vegetation has taken nd transplant in time.

of very long duration in n loam and peat.

growing freely in any garden

e commonly known under the pdragon, and are the most Hardy Percunials. All the bloom early out of doors the f sown under glass in March a little at first, and make very The varieties here speciall the finest kinds in cultivahe admirers of this useful and tal plant will prove gratifying ect.

cn soil. This pretty and interestingly of plants scarcely meets with of consideration it deserves: stablished, the Aquilegias will well, and the earliness and their blooms ought to render d favourites. A. alpina and e extremely beautiful, and can recommended. A. Skinneri brilliant colours, viz scarlet and is very heautiful. Sow in der glass, or covered with a il, when the seedlings appear, d transplant to mixed borders. lloides, No. 258,is a new variety e Columbine, and commended Committee of the Royal Horcicty.

1	Scientiste Name.	L.CI.	L.0.	N. O.	Native Country.	H. & Dur.	Col. of Fl.	Hght.	M. of	Price.	GENERAL OBSERVATIONS.
No.		12	20	162		hP	-4-	fee 2	t 4-5	s. d	
274	Aquilègia vulgaris striàta vulgaris variegàta		1		gar. var.		stri.		1	3	For descriptions and observations on the cul-
275 276				•••			div.			6 6	
277	A'rabis alpina	15		103	Switzerland	1	W.	4		3	j v-
278				•••	Cananana					3 3	
279 280	caucásica Aralia papyrifera	5	30	70	Caucasus China	sS	•••	4	6-7	1 0	Chinese Rice-paper Plant.
	Araucaria imbricata Arbutus Unèdo			$\frac{99}{110}$	S. America Ircland	hS	у.	20 10	9-12	1 0	
	Arctotis breviscapa		56		Cape G. Hope	bhA	o. & b.	ı	6-10	6	Beautiful Annuals: after the character of Ga-
284	grandiflora Arèca oleràcea	21	49	148	W. Indies	sT	pa. y.	40		1 0	
286		ļ			Madagascar		w.		İ	10	and peat.
287 288	Argyræa multiflòra**	5	25	100	E. Indies	gP	p.	10	7-8	6	
	splendens** Argyrolòbium Linneànum			132	Mexico	hhP	у.	2	7-9	6	Variegated foliage: sow in pans.
290 291	Argemòne grandiflòra) ł	149	***	hhA.		3		3	
292	Hunnemanni mexicana	l		- 1	gar. var. Mcxico			•••		3	
293	platycèras [**			:::	gar. var.		w.	6	8-9	3 6	
295	Aristolochia altissima Bonplandi**		41		Patagonia	gS	p.		0-0	1 0	the flowers resembling variously shaped horns.
296	ciliòsa**				•••	1.1.6	p. & g.		6.7	1 0	A. Sipho does well in the open borders. Soil,
297 298	Sipho** Armèria angustifòlia	5	30	153	N. America	hlıS hP	d. p. ro.	$\frac{30}{\frac{1}{2}}$	6-7 4-8	1 0	loam and peat.
299	cephalòtis			- 1		•••		•••		6	Useful hardy Perennials, adapted for rock-
300	dianthoides formòsa fl. alba			- 1	gar. var.		w.	ï		6	work, edgings, or culture in pots. Sow in
302	. — fl. earnea	1 1		- 1	•••		flsh.			6	sandy soil at the beginning of April.
303	grandiflòra Artemísia arborescens	19	54	98	Levant	hS	ro. y. & g.	10	6-8	3 4	Common garden soil.
305	Asclèpias curassáviea		26		S. America	lıP	s.	3	6-9	3	Sow in hot-bcd in February, and harden off for
306	mexicàna salieifòlia		ı	•••]	Mexico S. America	gS gP	w.	•••	7-9 6-7	6	greenhouse: sow the hardy kinds in the open air in April.
	Aspérula ciliàta		25		Levant	hA.	у.		7-8	3	Pretty rock or edging plant.
309 310	Aster alpinus	19	54		Alps Cape G. Hope	hP	p.	2 24 2	5-8 9-10	3	Sow in open borders in March in common garden soil.
	tencllus Astrágalus chlorostachys	17	45	132	Nepaul	hA hP	ь. g.& y.	3	8-9	6	Very easily cultivated herbaecous Perennials.
312 313	galegiformis				S. France Germany		р.	4	4-8	6	Sow in pans, and plant out into borders:
314	leueophæus purpùreus				S. France		w. p.	•••	6-7	6	common garden soil.
	Astrantia maxima	10	52	00	Roybana	1. 4	-	,	e e		African Daisy: sow in open borders.
	Athanàsia annua Atriplex cinereum		53 25		Barbary S. Europe	hA	у.	1	6-8	3 6	Pretty ornamental-foliaged plants.
318	mimularia				*				•••	6	1)
320	Aubriètia grandiflora Azalea, Ghent vars.		$rac{60}{25}$		Levant China	hP gS	P∙ div.	44	3-5	1 0	Pretty Perennial: sandy soil. Well-known handsome Shrubs; culture the same
321	pontiea				Levant	hS		6	5-6	1 0	as for Rhododendrons.
322	Baèria chrysostòma Baptisia anstràlis		$\begin{bmatrix} 54 \\ 25 \end{bmatrix}$		California N. America	hA hP	у. b.	4	4-6 6-7	- 3 - 6	Sow in March in open borders.
324	perfoliăta		- 1		Carolina	hhP	у.	3	7-8	6	Usual half-hardy treatment.
325 326	virgínica Barleria cærulea	14	59	63	Virginia E. Indies	sP	ъ.	::·	6-8	$1 \frac{6}{0}$	Handsome plants. Sow in pans; plant into
327	hirsuta	1 1]				•••		1 0	pots in a mixture of peat, loam, and rotted
328	Prionitis Bartònia aurea	12	$\frac{\dots}{25}$	35	California	sS hA	0.	$\frac{3}{1\frac{1}{2}}$	7-8 7-11	$\frac{1}{4}$	eow-dnng. Rich golden Annual: common soil.
330	Bauhinia acuminata**				E. Indies	sS	w.	8		1.0)
331 332	alba**			•••	•••			15		1 0	
333	brachycarpa** diphylla**	:::	- 1			:::				1 0	Very handsome hothouse Climbers. Soak the
334	parviflora**							20		1 0	seeds in warm water previous to sowing,
335 336	porrecta** purpurea**	:::					stri.	:::		$\begin{array}{ccc} 1 & 0 \\ 1 & 0 \end{array}$	then sow in hot-bcd and grow in sandy loam.
337	Ricardiana						w.			1 0	.vaui.
338	— grandiflora** variegata**		4		•••		stri.			10	
340	sp. ex India** [ra**				•••	•••]	W.			1 0	One of the best of the hothouse Climbers.
	Beaumontia grandifio- Bedfordia salicina	9		เย				•••		1 0	One of the best of the nothings Chinders.
343	Begònia cinnabarina		18		Bolivia	sPb	o. v.	2		1 0	Handsome-foliaged plants, the requisites for
344	hùmilis [Daisy) Bellis perennis (Double	19	54	98	hybrids	hP	s. div.	 1/4	3-8	$egin{smallmatrix} 1 & 0 \\ 1 & 0 \end{bmatrix}$	every Greenhouse or Stove. Fine double Daisy.
346					Italy		w.	1 10	6-9		Common garden soil.
			-								·

	Scientific Name.	L. Cl.	L. 0.	N.O.	Native Country.	H. & Dur.	of Fi.	Hght	M. of Flow.	Price.	Genera	L Observations.
No.			_					fect		s. d.		
	Benincasa cerifera**	23	51	104	E. Indics	hhA	у.	10	7-9	6	Handsome black-	fruited wax-like Gourds.
348 349	sinensis** Benthàmia fragífera	4	25	103	China E. Indies	hS	y. & h.	4	6-8	3	ows best in a she	Itered situation.
350	Bérberis Beali			78	gar. var.		y.	3	5-6	6	•	
$\frac{351}{352}$	crassifòlia				Valparaiso	•••		• • •	3-5	6 6		n deciduous Shrubs are well general cultivation bestowed
352	empetrifòlia diversifòlia				Monte Video	•••				6		for general utility they are
354	heterophy'lla	ļ			Magellan			•••	5-6	6	very available.	Sow common kinds in sandy
355 356	intermèdia						•••	•••		6		nnd April. Such kinds as thould be protected in a cold
357	japonica Leschenaulti				Neilgherries	•••	•••	10	4-5	1 0		are fairly up: deep loamy soil
358	nepalensis	ļ			Nepaul				5-6	6	suits them bes	t.
359	sp. cx Bucnos Ayres	10	5.3	 98	Buenos Ayres		•••	4 2	6-8	6 3		
361	Bidens aurea diversifòlia	1			S. America	hA		$\bar{2}$	7-8	3	These plants have	a many of the characteristics
362	grandiflora				•••					3		e many of the characteristics nown Coreopsis, and are very
363	ferulæfòlia			•••	Mexico	•••	:::		ļ ···	3	useful for mixe	
$\frac{364}{365}$	leucantha tenuifòlia			•••	S. America		w. y.			3		
	Bignònia catalpa**	14	59	79	N. America	hS	w.	10	6-8	6		011 1 To 11
367	grácilis**				S. America	gS		•••	4-5 6-8	$\begin{array}{c} 1 & 0 \\ 1 & 0 \end{array}$	Strikingly handso	ome Climbers. B. radicans may ust a south wall. B. Tweed
368 369	tomentòsa** Tweediana**				 Buenos Ayres		y.	:::	0-0	1 0		colden-yellow blossoms.
370	rádicans màjor**		٠		S. America	hhS	0.		6-9	6		
	Billbergia zebrina	6	25	82	Rio Janeiro	sP	stri.		6-7 5-6	6	w in loam and p	eat. ke plants. Sow in loam and
373	Biota glauca freneloides	21		99	S. Europe	hS	ap.		3-0	6	nusome rnaja-n peat.	ke plants. Sow in toan and
	Blitum capitàtum	li		94	Austria	hA		2		3	nnmon garden sc	
375	Blumenbachia insignis				Monte Video		1	3	7-11	1 0	ight hot-bed : pl lk-cotton Tree.	ant out in May.
	Bombax Gossipium Bossiwa alàta			$ 190 \\ 132$		gT gS	y. & r.	$\begin{vmatrix} 60 \\ 3 \end{vmatrix}$			ik-cotton Tiec.	
378	cordifòlia				N. Holland	5~	y. & p.	1	5-6	1 0	llandsome Green	house Shrubs. Soak the seed
379	heterophy'lla				N. S. Walcs	1	у.		5-10		in warm water	, then sow in hot-bed in sand , and harden off gradually.
$\begin{array}{c} 380 \\ 381 \end{array}$	linophy'lla] rotundifòlia				Anstralia		•••		5-6	1 0	toam and pear	, and narden on graduary.
	Brachycòme iberidifòlium	19		98	Swan River		b.	l	6-8	3		: a pretty and effective bed
383	album		.				w.	•••	•••	3	ding plant.	
	Briza geniculata				Cape G. 11 ope N. America		ap.		:::	6		isses, growing freely in th
	Brizopyrum sículum Bròmus brizæformis				S. Europe					1	open borders, and winter bo	and very useful for summe
387	lanuginòsus							:::	7.7			y Annuals are very striking
388 389	Browallia Cerviakowski demissa) 175 .	gar. var. S. America	•••	b. & w.	. 1 ½	7-1(6-9		and well worth	i cultivation. Very serviceabl
390					Peru	:::		13		1	for Greenhous	e or Conservatory decoration
391	— alba			.			w.		1	1	Sow in hot-be	ed in light soil in March off; pot and re-pot separatel
392 393	— eærulea grandiflora				gar. var.		ь.	:::	1		in sandy loam	and peat.
	— tombante Buddleya Lindleyàna	3	2	17.	China	hhS	1	6	6-7	. (eanires deep, san	dy, loamy soil.
395	Buplenrum fruticòsum	5	26	184	S. Europe	hS	g.	3	7-8		urious-foliaged p	lants: succeed in any goo
396		1:	0 5	3 98	S. America	hA	s.	13	6-7		garden soil.	2 2 24 - 22
398	Cacàlia eoccinea — aurea						у.		1	:	Sow in good gar	
399	Calampelis miniata**	1	4 5	79	Cbili	hS	ear.	10	7-9		ery handsome Cl plant out in Ma	imbers. Sow in hot-bed, an
400	scabra**			159	•••	hA	ro.	113			•	
401	Calandrínia díscolor grandiflòra	1		1	1	117	р.	1		1 :		pretty Annuals, growing freel arden soil.
403							ro.	1	.			ant in colonrof all the Annual
404			•• ••	1	N. California Chili	hh/	c.	1 2	6-9) :	and suited for	edgings, clumps, or rockerie
405	umbellata Calceolaria, finest hybri	d ?	2	17		gP		2		1		ull of drainage, then loam an
407		4 i						1		1	peat, and then 3	inch of sand; water well, an e is dry, press it level and sca
408			•- ••		1)	hh	\	2		1	ter the dust-like	e is dry, press it level and sea e seed; cover with a little san
409 $ 410 $					(31.11.	11111	y.		1		and place a squ	are of glass over the pot in
411	sp. ex Chili	.	٠٠.							, 3	frame.	
	Calimeris diplopappus			1 98			b. w. & y	$\begin{bmatrix} 1 \\ 3 \end{bmatrix}$			ood garden soil. mixture of neat	, loam, and sand.
	Calla æthiopica Callichròa platyglossa			5 72 4 98		e hPl hA		1) .	ommon garden s	
	Calliopsis Atkinsoniàna			5	Columbia		y. & b	. 2		i	These handsome	and showy Annuals are, fro
410	bícolor						1	3			their brillian	t colours and long duration
417							d. r.	1::			bloom, worth	extensive cultivation. C. Bu purpurea are the most brillian
418		- 1					mar.					es make good ribands and bed
420		- 1				1		1				•

	Scientific Name.	L.CI.	L.O.	N.0.	Native Country.	H. & Dur.	Col.	Hght.	M. of Flow.	Price.	GENERAL OBSERVATIONS.
No.		-	Γ					feet	_	s.d.	
421	Calliopsis bicolor nàna	[19	55	98	gar. var.	hA	y. & b.		7-9	3	1
422 -					•••	•••	d. r.	3	•••	3	If the seed-pods of the different varieties
123	— — nàna			1	•••	•••	6. 1	1	•••	6	of Calliopsis be picked as soon as the
124 125	— quilled				•••	•••	y. & b.	1	•••	6 3	show themselves, the plants will bloom for
26	Aekermanni cardaminifòlia			•••		•••	у.			6	a much longer time. Sow carly in commo
27	coronàta				Texas		y. spot.			3	soil and cover with garden pots, or make up slight hot-bed, cover the surface with rotte
28	Drummondii				•••		y.	1		3	leaves, and then with three inches of loa
129	filifòlia	l	53		***	•••		3		3	and leaf-mould: sow the seed thickly,
130	— Burridgii	ļ	ļ		gar. var.		c. & y.	1		3	rows about three inches apart, and whe
31	— — atropurpurea	ļ			•••		р. & у.			6	ready plant out where wanted.
32	longipes				Texas		у.	2	3-8	6	
	Callirhoe digitata	16	48	137	N. America		d. ro.	.:.	6-10	6	Very beautiful, blooming for four or five month
34	— nana	l:::	25	132	N Holland			3	7-8	6	continuously.
	Callistaehys lanceolàta Calodendrum eapensis			168	N. Holland Cape G. Hope	gS gT	y. pk.	40	7-9	6	Sow in heat in sandy peat.
	Calyeánthus præeox	19	35	85	Japan	ĥS	y. &r.		2-12	6	Cool greenhouse.
38	maerophýllus				California		y. cc 1.			6	Fragrant and handsome Shrubs: sow in hea
39	sinensis	l			China					6	and transplant.
	Carnellia, finest double	16	18	86		S		div.	5-7	1.0	Saved from the finest collection in Italy.
	Campánula alliariæfolia	5	25	87	Caucasus	hP	b.	1	7-9	6	1
42	bononiensis				ltaly	hP†	•••	2	5-9	3	
43	carpatica				Carp. Alps	•••	•••	1/2	6-9	3	This is one of the most useful, well-known and
44	— alba			•••		•••	w.		•••	3	appreciated tribe of Perennials: the seeds
45	grandiflora, true		•••		Siberia	•••	p.]		6	of all the kinds are very small, and should
46	grandis	•••		•••	Natolia	•••	ь.	3	8-9	3	be only slightly covered: all the perennia
147 148	lamiifòlia latifòlia	• • •	••••	•••	lberia Britain	····.	pa. y.	4	6-7 7-8	6 3	varieties, if sown in the beginning of Apri
49	- alba	• • •				•••	р.	i I		6	in nice friable soil, will bloom the second
50	littoralis	•••			N. Holland	hhB	w. b.	1	4-8	3	year: many, if sown as mentioned above for Calliopsis, will bloom in the autumn of
51	Lorei	•••			ltaly	hA		1	7-8	3	the first year, as the beautiful C. carpatica
52	— alba				•••	•••	w.			3	and alba, so good for beds and edgings.
153	macrantha	•••			Mahuria	hP†	b.	2		3	C. pyramidalis is very elegant, may be
154	nóbilis				China	hhP	pa. p.	3		6	trained to any form of growth, and if sown
55	pentagònia		•••		Turkey	hA	b. & p.	1	5-8	3	early will bloom the first year: may be
56	— alba	•••	•••	•••	_···		w.	·:-		3	grown either in pots or borders. C. grandi-
157	persicifòlia	•••		•••	Europe	hP†	•••	3	7-9	3	flora and grandis bloom more freely, and
158 159	— maxima pulcherrima	•••		•••		•••	1.	$\frac{\dots}{2}$	6-9	$\begin{bmatrix} 6 \\ 6 \end{bmatrix}$	the long drooping purple blooms of the
60	pyramidalis				gar. var. Carniola		h. pa. b.	4	6-7	6	former are very handsome. C. Vidalli is a
61	— alba						w.			6	new species from the Azorcs, and is very elegant. Such pretty Annuals as C. Lorei
62	rhomboidea fl. pl.	1 1			Switzerland	hP	pa. b.	2	:::	6	and pentagonia will bloom heautifully in
63	strieta				Syria	hB	w.	1	6-8	3	the open borders if sown early and well
64	strigòsa		• • •		Italy	hP†	b.	- i		6	thinned, or sown thinly in the first in-
65	Trachèlium fl. pl.		•••		Britain	hΡ	v.	4		3	stance.
66	- album plènum		•••	•••		. : : :	w.			3	
167	Vidalli	•:•	•••	00		hhP		1 1	7-8	6	Į
169 169	Canua bícolor			1	Brazils S. America	hhPt			4-11	$\begin{bmatrix} 4 \\ 3 \end{bmatrix}$	
70	conpacta clegantissima	•••		•••	gar. var.	••••	s.		$\frac{1-12}{4-7}$	6	
71	edulis				E. Indics		o. 8.	4	1	6	This tribe is remarkable for its large, hand-
72	Fintelmanni				gar. var.		y.			1 ŏ	some foliage, and, we are inclined to
73	flaceida	1 1			E. Indies		5.			6	think, has hitherto scarcely met with the
174	gigantea vera				S. America		r. & y.	7	1-12	10	amount of attention it deserves. To large
175	indica				E. Indies		s.	4		3	gardens in a warm situation the various
76	— rùbra				•••					6	species of Canna will be found invaluable
77	- species nòva		•••		•••			٠		6	adjuncts, and their appearance in masses is
78	Kartsteiniana	•••	•••		gar. var.	•••	d. r.			6	rich, luxuriant, and tropical. Soak the seeds in water at 125° for about 12
79	lætal	•••	•••	•••	· · · ·					6	hours: sow in sandy loam and peat, and
80	lagunensis Lamborti	•••	•••	•••	Laguna		y. spot.		8-11	$\frac{3}{6}$	place in a brisk hot-bed: when well up,
82	Lamberti leptophy'lla				Trinidad S. America	•••	s.	4	5-6	4	thin, and pot separately, and keep under
83	limbata		:::	:::	Brazils		e.	- 1	1-12	4	glass. If plants be turned out the second
84	lùtca				E. Indics	***	r. y.		•••	3	week in June, in a rich soil and sheltered
85	· — picta						y. & s.			3	situation, they will combine with other
86	nepalensis	ı	- 1		Nepaul		v. spot.			1 0	plants of a similar nature in imparting an
	Schuberti		- 1		gar. var.		r.			3	unequalled mass of rich verdure to an other-
	speciòsa				S. America				8-10	3	wise ordinary-looking garden: the roots
88			- 1	- 1	E. Indics		s.			6	can be lifted before the arrival of frost, kept
188 189	species nòva	•••		•••		•••	** 1			1	the second stone and planted out a set ?
188 189 190	species nova — ex Guatemala				Gnàtemala					6	
188 189 190 191	species nòva — ex Guatemala spectabilis	:::		:::		1				6	in a cool stove, and planted out again in the cusuing summer.
487 488 489 490 491 192	species nova — ex Guatemala			:::	Gnàtemala						in a cool stove, and planted out again in the cusuing summer.

496 C 497 C 498 C 499 C	Canna Warszewiczii	_			Country.	H. & Dur.	Dur.	Hght	M. of Flow	Price	
496 C 497 C 498 C 499 C	Canna Warszewiczii							fect		s.d.	
497 C 498 C 499 C	7/	1	25	88	Cen. America	hhPt	s.	4	8-11	3	For culture, see preceding page.
498 C	Cánnabis gigántea	12	$\frac{40}{25}$	185		hhA hhS	g.	6 3	6-7 5-8	6	Ornamental grass.
499 (Capparis spinòsa Capsicum microphy'llum			ชย 1 7 8	S. Europe. Iudia	hhA	ro. s.	2	3-0	6	Sow in heat and transplant. Ornamental fruit; pretty for conservatory.
500	Cardiospermum Halicac.**			172	***	gΛ	w. & g.		7-8	3	Usual greenhouse treatment.
	Carduus nigrescens	19	53		Europe	hB	p. 3	•••		3	C. nigrescens is a sweet-scented pink-flowered
501	Benedictus .				•••	hΑ	w.	3		3	Thistle; the other varieties are well adapted
502	Mariànus .	00		 104	Tu Na	sS	•••	20	•••	1 0	for mixed borders.
	Carica papaya ··· . Carthàmus tinctòrins			$\frac{104}{98}$	India Britain	hB	g. p.	5	•••	1 0	Indian Fruit: stove treatment. Common garden soil.
505 C	Carissa carandas			60	E. Indies	sT	w.	15		1 0	Indian Fruit: stove treatment.
506	Cassia alàta	10		132	W. Indies	gS	у.	12	6-7	6)
507	auriculàta	1		•••	E. Indies		•••	6	7-9	6	
508	corymbòsa		l .	•••	•••				7-8	6	This is a very handsome genus of Ornamental
509	cremóphila fistula	···		•••	•••	•••		:::		6	Shrubs, useful for either Greenhouse or
510 511	glauca			•••	•••			4	:::	6	Conservatory decoration; and many of the
512	grandiflora				•••				6-9	6	species may be employed to adorn the out-
513	lævigàta ·	ļ			•••					6	door garden if planted out in June and re-
514	Marylandica	ı		•••	America					6	moved before the appearance of frost. Sow in hot-bed, and soak the seeds before
515	occidentalis				W. Indics			21	5-8	6	sowing. C. tenuifolia has long spikes of
516	palmistifòlia quadrivalvis	1		•••	E. Indics	•••		4	•••	6	bloom densely covered with deep golden
517	quadrivalvis sumatrāna				Sumatra	:::		3	6-9	6	flowers.
518	tenuifolia	1			E. Indies		:::	4		6	
520	tomentosa	\			D. Indies					6)
	Casuarina muricata			92		gT	ap.	15		6	Curious-foliaged Greenhouse plant.
522	Catanánche cærùlca	19	•	98	S. Europe	hP†	b.	2	7-10	3	Sow in sandy loam.
523	— bícolor		•	•••		1:::	b. & w		6.0	3	J com in carmy issues
524	lùtea	17	25	132	Candia	hA gT	у.	20	6-9 6-7	3 6	Very ornamental Greenhouse Shrubs; good
	Cathartocarpus fistula grandis	11	20		lndia				0-7	6	
526 527	nodòsus	1::								6	
	Ceanòthus africanus	5		164	hybrid	hhS	W.	2	7-10		l
529	americànus		٠							6	
530	azùreus		: :::		Mexico	:::	l. b.	10		, 6	
531	Cèdrus Deodàra [dali	3 2	1 45	90	Nepaul	hT	ap.	100		1 0	
	Celosia aurea pyrami	- 9	20	0.1	Japan	hhP	у·	3	7-10	io	
533 534	New crimson fea argentea [there				India	hh.A	sil.	1:::	:::	6	
	Cènia turbinàta	1	9 54	98	Cape G. Hope		ro.	1		3	1
536	— flàva						у.			3	Good garden son.
537	Centaurea americana	 	. 55		Arkansas		li.	3	6-9		
538	Crocodylium				Levant	1. D	p.	$\frac{1}{2}$	1	3	
539	dealbàta				Caucasus	hP hA	b.	i	6-8	3 3	Figure, depressa, and rosea are the best: the
540	depressa — ròsea	:			gar, var.		r.		0-0	3	perennial species will broom the second
542	elougàta				Barbary	hP	v.	2	8-9		year. C. macrocephala has a large globular
543	glastifòlia			1	Siberia		у.	4	6-9		
544	invulueràta	ļ			Europe	hA				3	is nurple. All the kinds are well worth
545	Lippi		$\cdot \cdot \cdot$		Egypt	1.0	1. ր.			3	cultivation. Grow in any good garden
546	macrocéphala			1	Caucasus	hP		3		3	
547	montàna			:	Switzerland		b.	1 1		3	
548	phry'gia Centauridium Drummondi				Europe	1	у.	2		3	
550	Centrantlius macrosiphon			180		hΛ				3	
551	— albus						w.	1		3	
552	- carneus			•	"		fish.	1::		3	
553	— nànus	;:	ينان		77 7 7		•••	1 1		3	
554	Centrosema braziliensis**			132		gS hB	p y.	$\begin{vmatrix} 4 \\ 6 \end{vmatrix}$			
505	Cephalària tartárica Cephalotaxus Fortun		2	99	Japan	hT		4(2 6	Handsome Conifer (seed rare).
557	Cerastium tomentòsum			91		hP.		1	6-9	1 0	
	Ceratochlòa péndula	1	3 20	i 12;		ı hA	ap.	113			Organiental Grasses.
559		1.								. 6	
560	Cereis Siliquastrum			5 13:	, -	ı		18			
561	— album					hΛ	w.	3		3 3	\
	Cerinthe major		- 1	. 81	1			1		1 6	, Useful hardy plants, succeeding wen in any
563 564		1.			1	1 :::	1 :::	3		3	good garden son.
	gymnandra Cestrum aurantiacum			17							Sow in hot-bed in sandy soil : fine greenhouse
566		V			Mexico			١	.	1	ornaments.
	Chænostòma fastigiatum	1	4 5	9 17	Cape G. Hop			13	7-1		Sow in gentle heat: very pretty for edgings of
568		1	•• ••		•••	1	pk.	1		1	3 rock-work.

											OWL
	Scientific Name.	L.CI.	L.0.	N. 0.	Native Country.	H. & Dur.	Col. of FI.	Hght.	M. of Flow.	Price.	
No.		-						fect		s. d.	
569	Chænostòma viscòsum	14	50	175	Cape G. Hope	hhA	ro.	1	7-10	4	Sov
570	Chamærops humilis	23	52	148	S. Europe	gS	g. & w.	6	2-4	6	Dw.
571	Chelune barbata	14	34	175	Mexico	ňР	0. 8.	3	6-9	6	Fine
572 573	- coccinea Chenopòdium atriplicis	5	26	94	China	hA	S.		7-9	3	Har
574	Chirònia baceífera		25	118	Cape G. Hope	gS	у.	2	7-8	6	Son
575	frutescens				***	Ĭ	r.	112	6-9	6	g
576	Chironium Opóponax					gA		١,	0 7	6	
	Chloris fimbriàta	23	91	123	E. Indies	hhA	ap.	1	6-7	6]]
578 579	barbata dolichostachya			:::	S. Europe		•••	•••		4	Πo
580	polydactyla				Jamaica	:::	•••	3		4	1}
581	· radiàta ·				W. Indics			1 2 1		4	П
582	submùtica				Mexico		•••		7-8	4	IJ.
	Chorizèma cordàta	10		132	Australia	gS	у.	$\frac{2}{3}$	3-4 3-10	3	One
584 585	ilieifòlia varia		•••		N. Holland Swan River	•••	y. & r.	4	6-7	3	Se
586	- rotundifòlia				Swan Miver		0. & r.		''	4	in
587	- splendens	I	ļ				y. & r.			4	ir
588	Chrysanthemum carneum	19	54	98	Caucasus	hP	fish.	2		6	1)
589	centrospermum				gar. var.	hA	y.		.,.	3	N
590	mixed large-flowd.	•••		••••	China	hP	div.	$\frac{3}{1}$	10-12		\prod
591 592	mixed Pompone		•••	•••	•••	1. A		2	6-7	1 0	1
593	lacustre multicaule	١				hA	у.			6	1
594	' Sibthorpi						•••			3	
595	Chrysostòma hypochondria			,						6	Goo
596	Chrysurus aurens			123	Levant		ap.	2	7-8	3	Orn
597	Cinnamomum japónicum			131	Japan	gT	g. & w.	10	3-6	6	Cin
599 599	Cineraria, choicest	19	1	98	Caucasus	gS Ln	div.	3	2-5 6-8	1 0	Save
	maritima Cirsium macrocéphalum		53		Cape G. Hope Numidia	հ հP†	у. b.	2	7-8	6	Goo
601	pulcherrimum				N. America		у.	4		3	aı
602	Cistus álbidus	13	25		Spain	lıS	p. b.	2	6-7	3	1
603	erispus				S. Èuropc		у.	•••	•••	3	T
604	eriosépalon		···				•••	2	5-7	6	
$\begin{array}{c} 605 \\ 606 \end{array}$	guttàtus	···	•••		England	liA i	•••	4	6-7	6	
607	ladaníferus monspeliensis	···		•••	Spain S. Europe	hS	w.	2		6	
608	Narniens		 		S. Europe		•••			6	}
609	salvifòlins					hS				3	H
610	tanricus		ļ		Crimea		p.	• • • •		3	
611	Tuberaria		ļ		S. Europe	hhP†	w.	3 3		3	
612 613	villòsus	•••	···	•••	*** 31	hS	p.	div.	••••	6 3	
	finest mixed rock Citrus decumàna	114	48	75	div. India	20	div.	15	5-7	6	Forl
615	myrtifòlins	13	***		Asia	gS	w.	3		3	tr
	Cladánthus arábicus	19	54		Barbary	hA	d. y.	11	7-8	3	Goo
617	Clarkia élegans	8	25	146	California		ro. p.	2	7-9	3)
618	— fl. pl.		· · ·		gar. var.					3	F
$619 \\ 620$		 -	···	I	•••		ro.	•••	•••	3	
621	—— fl. pl. pulchella	···	···		V Amorico	•••	•••	11	6-10	3	
622	— alba	ļ			N. America gar. var.		w.			3	
623					gai. vai.		го.			3	
624	— — alba			í	•••		w.		•••	3	17
625	and a product				•••		•••			10	Ш
626					•••		ro.	3	•••	6	
$\frac{627}{628}$					•••		,	112	•••	6	
629					•••	•••	bor.	•••	•••	3	
630				:::	•••		d. r.		•••	6	
631	Claytonia perfoliata	5	l	159	N. America		ro.	1 2	5-8	3	Gon
632	Clemàtis flammula**	13	35	162	France	hS	р. & у.	20	7-10		$ \gamma \lambda$
633	B. 110				Hungary	hP	` `	2	6-8	3	H
$634 \\ 635$	and the state of t	···		1	S. Europe		w.			6	
636			•••		N America	1.8		15	5-6	6	}
			••••	•••	N. America England	liS	p.	20	6-9	6	П
037					Spain	:::	w. p.			6	
637 638							r.			6	
638 639	— rùbra**				gar. var.						
638 639 640	— rùbra** Clcòme arbòrea	 15	 61	89	gar. var. Caraceas		w.	8	6-8	3	Sow
638 639	— rùbra** Cleòme arbòrea speciosissima	15 		89		gS hhA			6-8 7-8		Sow in tr

Sow on heat and transplant.
Dwarf Fan Palin: grows outdoors in summer.
Fine scarlet Perennials: same culture as for
Pentstemon.
Hardy ornamental-foliaged plant.

GENERAL OBSERVATIONS.

Hardy ornamental-foliaged plant. Sow in sandy peat and luam in hot-bed, and grow in well-drained pots.

. . .

Ornamental Grasses, extremely curious in growth: grow in any good garden soil.

One of the prettiest plants for the decoration of Greenhouse or Conservatory. Soak the seeds in warm water, and sow in sandy peat in hot-bed; harden off when up, and grow in fibry sandy peat.

Nos. 590 and 591 are the well-known Chrysanthemnms of the Exhibitions, and the seed offered is saved from a collection of the finest varieties. The other varieties are very ornamental plants for mixed borders.

Good garden soil. Ornamental Grass. Cinnamon Tree.

...

Saved from the best varieties: C. maritima is a fine silvery-foliage bedding plant.

Good for mixed borders or shrubberies: sow in any garden soil.

The Cistus is usually known under the name of Rock Rose, and is useful and ornamental in all situations. Sow the seeds in sandy soil in April, and protect with glass until fairly up: small kinds do best on rock-work and banks in sandy loam, and though hardy, it would be advisable to take a few cuttings or layers every year and protect them during the winter, in case any of the exposed plants die.

Forbidden Fruit or Pommeloe: sow in heat and transplant.

Good garden soil.

Tew Annuals are more described approved of than the Clarkia, which is one of the easiest grown and freest-blooming Annuals in cultivation. 627, C. integripetala, is a vast improvement upon the older kinds and No. 625, C. pulchella flore pleno, is an entire novelty, and has received a first-class certificate from the Royal Horticultural Society of London. No. 628, C. integripetala marginata, is a very handsome variety. All the kinds grow freely out of doors.

Good garden soil.

A handsome class of hardy Climbers, succeeding in almost any situation, but for general use it will be as well to attend to the following directions. Sow in a dry sheltered place, and plant out in sandy loam if the soil has a calcareous tendency, it will be advantageous: they all look well against

a wall or trellis-work.
w in hot-bed, and transplant out of doors.
in June. C. arborea requires warm greenhouse.
reatment.

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	w in hot-bed and transplant in June. w in hot-bed, and transplant out of doors in June: desirable flowers. ampieri is one of the most magnificent onling plants in cultivation. Sow in heat
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	w in hot-bed, and transplant out of doors n June: desirable flowers.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	n June: desirable flowers. ampieri is one of the most magnificent
647 nutans E. Indies 6 11-12 1 0 Sow 648 odoràtum Nepaul r. 7-8 1 0 in 649 — album w. 6 1 0	n June: desirable flowers. ampieri is one of the most magnificent
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	n June: desirable flowers. ampieri is one of the most magnificent
649 — album w. 6 1 0	ampieri is one of the most magnificent
1650 sp. ex Manritio Mauritius 10 1	ampieri is one of the most magnificent oning plants in cultivation. Sow in heat
	oming plants in cultivation. Sow in heat
or otherway in British and I the state of th	
653 puniceus N. Zealand hhS e. 4 5-6 1 6 and	l grow in loam and peat.
654 Clintônia élegans $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	oss one sharming little plants were hear
[[] [] [] [] [] [] [] [] [] [ese are charming little plants, very beau- liful for edgings, borders, pots or rock-work:
657 — atropurpurea d. p. 6 s	sow on a little heat, with as much care as
	for Calceolaria, as the seed is very fine.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
661 gesnatia** 6	
0.00 3.4 3.33 404 []] 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	lendid Greenhouse Climbers, which deserve
[] [] [] [] [] [] [] [] [] []	much more extended cultivation than they have hitherto received. Soak the seeds in
665 — alba** w w 6 } 1	ukewarm water, then sow in sandy peat
666 —— grandiflora**	and loam in hot bed. We believe the col-
1000 212 444	lection now offered to he the most extensive in the kingdom.
668	in the kingdom.
670 virginiàua** America b. 6 J	
1000 C. 11 1. 1 45.11 12 12 10 10 10 10 10	Climber: sow the seed edgeways.
Ver	ry oruamental for pots or rockeries.
674 Coix lachryma 21 38 123 E. ludies sP ap. 2 6-7 3 Job's	Tears: Ornamental Grass.
675 Collinsia bartsiæfòlia 14 59 175 Califoruia hA p. 1 5 8 3 0 676 — alba 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
678 — alba pura gar. var w 3 We	ell-known and universally admired Annuals;
679 — atrorubens d. r. 3 1	may be treated in every way the same as
1001	Calliopsis. C. bicolor and major are the prettiest and most generally used, but C.
[[[[[[[[[[[[[[[[[[[[grandiflora is rather brighter in colour; all
683 heterophy'lla Columbia p. & w 7-9 3 t	the varieties, however, are very desirable.
684 grandiflora p. & b 5-7 3 685 multicolor California er, li.w 5-9 3	
685 multicolor California cr. li.w. 3-9 3 3 5 686 — marmorata gar. var. mar. 3 3 5	*** *** ***
687 Collòmia eoceínea 5 25 154 Chili s. & y. 6-11 3 7	
688 gráeilis America 2 3 Soy	w in common garden soil: good for bees.
ose grandinora san san	8
691 Colvillea racemosa 17/45/132 Madagasear gT s. 45/4-5/6 Noble	Greenhouse plant.
692 Combrètum grandiflorum $8[25]$ 191 Sierra Leone gS $5[2-5]$ 6 Usual	Greenliouse treatment.
	y tuberous-rooted plants: if sown in heat planted out of doors in June, will bloom
695 — variegàta var. lf. 3 the	first year.
	of the Valley.
	ry hardy; grow in any good garden soil.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
700 lævis Trinidad r. 14 1 0 Sov	w in heat in peat.
701 Sebestena W. Indies sT o. 15 1 0]	and the same of th
702 Coris monspeliensis 160 S. Europe hh B li. ½ 7-9 6 Sow i	n well-drained pots.
704 juneca hS 3 6-7 6 \ 11e	rbaccous plants, requiring a light rich soil.
705 secundàcea 6	
1 # 0 # 0 /	in good garden soil.
708 bininuata Mexico p 3 Sov	w in slight hot-bed, and transplant in
709 lùtea y 10-11 3	May.
	non garden soil.
711 Crèpis parviflòra 53 S. Europe 1 3 Good 712 Crucianella stylòsa 4 25 167 Persia hP+ p. 12 6-8 3 Comn	garden soil. non garden soil.
713 Cryptomeria japonica 21 49 99 Japan hT ap. 100 5-7 6 Ornar	nental Conifers: sow in cold pit in peat
714 Lobbi 10 and	l loam.
715 Cùemnis acutángulus 104 E. Indies hhA y. 8 6-9 3 $\left. \begin{array}{cccccccccccccccccccccccccccccccccccc$	culture see page 16.
716 aradac 3]	

7117 Geumis dipsaeus	Scientific Name.	L. Cl.	L.0.	N. 0.	Native Country.	H. & Dur.	Col. of Fl.	Hght.	M. of Flow.	Price.	General Observations.
18 Gexabars	No.) 31	ارا	104	Fount	hh A	,,		6-0		\
272 medulferus	The Caronina are provided in										
720 melabiferus						- 1					
Page	720 - medulíferus										the same as the Chember, and train against
224 — monoriica Sa N. America Milb 10 6-0 3 3 225 Georphida leneantha depress gar, var, linh 10 6-0 3 3 3 3 3 3 3 3 3		•••									a wall or trellis, or in any way that may be
Momordica Sab		1		- 1	ī	- 1					desired. C. flexuosus, commonly known as
platre de Corse playcentra				- 1						6	
228 massue inalifornis 229 massue inalifornis 230 Melopepo variegata 231 platre de Corse inalifornis 232 platre de Corse inalifornis 233 poire à pondre 234 pour de Joude de l'agressia					N. America			10	6-9		interesting in its fruit.
					gar. var.			•	•••		The tribe of Cuenrbita, or Gourds, are well
zero inadiformis 730 Melopope variegata 731 — maxima 732 politre de Corse 733 poire à poudre 734 Siphon 735 Caphea Donkelaeri 736 Caphea Donkelaeri 737 Della de Corse 738 Caphea Donkelaeri 739 Caphea Donkelaeri 730 Melopope variegata 731 poire à poudre 732 poire à poudre 733 poire à poudre 734 Siphon 735 Caphea Donkelaeri 736 Caphea Donkelaeri 737 Caphea Donkelaeri 738 Caphea Donkelaeri 739 Caphea Donkelaeri 740 purphera 741 silcionides 742 strigilibsa 743 visiconides 743 visiconides 744 zimpani 745 Capressus austrilis 746 Capressus austrilis 747 glauca pendula 748 pendula (fundris) 749 California 740 pendula (fundris) 740 pendula (fundris) 741 glauca pendula 742 pendula (fundris) 743 Capressus austrilis 744 yelane pendula 745 Cyclamen Coum 755 curiosa 751 — pyramidhis 753 — degans 754 Cyclamen Coum 755 curiosa 756 Cyclasthèra pedata 757 Cyclasthèra pedata 758 Cymandous 758 Cymandous 759 Cynogosum 750 Cyclasthèra pedata 750 Cyclasthèra pedata 750 Cyclasthèra pedata 751 — pyramidhis 753 Capress 754 Cyclamen Coum 755 Cyclasthèra pedata 756 Cyclasthèra pedata 757 Cyclasthèra pedata 758 Cymandous 759 Cynogosum 750 Cyn				,	,						known as producing some of the most
Melopepo variegata 731 — imaxima 732 — platre de Corse 733 — Siphon 734 — imaxima 735 — imaxima 735 — imaxima 736 — imaxima 737 — imaxima 737 — imaxima 738 — imaxima 739 — platre de Corse 739 — platre de Corse 739 — imaxima 730 — imaxima 731 — imaxima 731 — imaxima 732 — imaxima 733 — imaxima 734 — imaxima 735 — imaxima 735 — imaxima 736 — imaxima 737 — imaxima 737 — imaxima 738 — imaxima 738 — imaxima 739 — platre de Corse 739 — platre minicales 739 — platycentra 730 — platycentra 731 — platycentra 732 — platycentra 733 — imaxima 734 — platycentra 740 — purphrea 741 — silcinoides 742 — silcinoides 743 — viscosiasina 744 — silcinoides 745 — imaxima 746 — imaxima 747 — imaxima 748 — pendula (imabris) 748 — pendula (imabris) 749 — degan 740 — glauca 740 — glauca 741 — glauca 742 — degan 743 — glauca 744 — glauca 745 — imaxima 746 — imaxima 747 — degan 748 — pendula (imabris) 749 — degan 740 — glauca 740 — glauca 741 — imaxima 742 — degan 743 — glauca 744 — glauca 745 — imaxima 746 — imaxima 747 — degan 748 — degan 749 — degan 740 — glauca 740 — glauca 741 — imaxima 742 — degan 743 — glauca 744 — glauca 745 — claima 746 — claima 747 — degan 748 — degan 749 — glauca 740 — glauca 740 — glauca 740 — glauca 741 — imaxima 742 — degan 743 — glauca 744 — glauca 745 — claima 746 — claima 747 — degan 748 — degan 749 — glauca 740 — glauca 740 — glauca 740 — glauca 741 — imaxima 742 — degan 743 — limital 744 — degan 745 — degan 745 — degan 746 — degan 747 — degan 748 — degan 749 — glauca 740 — glauca 740 — glauca 740 — glauca 741 — glauca 742 — degan 743 — glauca 744 — glauca 745 — degan 746 — degan 747 — degan 748 — degan 749 — glauca 740 — glauca 740 — glauca 740 — glauca 741 — glauca 742 — degan 743 — degan 744 — glauca 745 — degan 746 — degan 747 — degan 748 — degan 749 — glauca 749 — glauca 740 — glauca 740 — glauca 740 — glauca 741 — glauca 740 — glauca			, ,	- 1					1		
731 — maxima 732 platre de Corse 733 poire à poudre 734 Siphon 735 Caphea Donkelaeri 736 Caphea Donkelaeri 737 platre de Corse 738 Caphea Donkelaeri 739 purpière 739 purpière 730 Caphea Donkelaeri 730 ministe 730 ministe 730 ministe 731 Mexico 732 platre dos 733 Caphea Donkelaeri 734 platre dos 735 Caphea Donkelaeri 735 Caphea Donkelaeri 736 ministe 737 platre dos 738 Caphea Donkelaeri 739 platre dos 730 ministe 730 ministe 730 ministe 730 ministe 730 ministe 730 ministe 731 ministe 732 platre dos 733 ministe 734 ministe 735 ministe 735 ministe 736 ministe 737 platre dos 738 ministe 738 ministe 739 purpière 730 ministe 731 ministe 732 ministe 733 ministe 734 ministe 735 ministe 735 ministe 736 ministe 737 ministe 738 ministe 738 ministe 739 ministe 739 ministe 730				- 1	1						
Page	731 — maxima	ļ	·]	•••	•••	•••	• • •			work of arbours, &c. &e., the varied and
											fantastie forms of the fruit adding a peculiar
April Apri			:::								charm to the luxuriance of the foliage.
Mexico 2		ıï	25		•••)		The Cuphea has long been deservedly admired
		l			Mexico (?)		s. & y.		•••		as a bedding plant, in which capacity it has
Mexico	1	•					ver.	2			
Maxico M						. 1	9 10 0	1.1	7-10		
		i			Mexico			-			C. emiuens is a most beautiful species, with
141		ł.	1	1 1	Mexico			l			long tubular flowers of searlet and yellow;
							-	•••			
Table Copressus australis California			···	••••				ı	1		
		21	49	99							ricties.
		Ī				•					
Part		 						50			The Cypress of historic and Continental re-
	748 pendula (funèbris)	•				1	1	1			
These are well-known most beautiful bulbou plants, universally admired. Sow in sand by the process of the pro	749 — glauca …	J		1 1					5_6		
			1			ł	i	1		6	
Transparent	752 torulòsa		1	1			ł		1		
		1::			G D			}	1	1	These are well known most beautiful hulhous
758 Cynanchum nigrum 758 Cynanchum nigrum	1	1	1			1	I -	Ė			
758 Cynanchum nigrum 758 Cynanchum nigrum		1	1					1 3			
1			49	104		hhΛ		10			Curious bird-shaped Gourd.
Crimea C										1	
761 Cypèrus alopecuroides 3 26 123 Cape G. Hope hhP ap. 2 4-7 6 6 762 páthlus			. 25	81			1				
Texas Pathlus Pathlu		3	26	123			1) good garden som
The content of the properties Carthagen and pattern of the properties Carthagen and pattern of the appearance of the general Flower Gar den. C. alpinus and Laburmum are respect ively known as the Seotch and Englis Laburmum of the gardens. S. Ehrope				1			1 -		6-7		Ornamental Grasses; will also grow under
Total Tota			٠		•••	•••					water.
The second of		1:2	1 45				1				Extremely useful and arnamental Shruhs for
The control of the			1	1		I					
The certagenensis Carthagena Carthagen		t	1 '		Ŭ		1	 			the appearance of the general Flower Gar-
These plants are particularly remarkable for the extraordinary size of their blooms. If the extraordinary size of their blooms and size of the extraordinary size of their blooms. If the extraordinary size of their blooms are the extraordinary size of their blooms. If the extraordinary size of their blooms. If the extraordinary size of their blooms are the extraordi	768 Laburnum	1					1		1		den. C. alpinus and Laburunm are respect-
19 10 10 10 10 10 10 10		4					1	1	1 '	1 -	
Texas		i	54	98							No. 772, the well-known Dahlia: sow in sandy
These plants are particularly remarkable for the extraordinary size of their blooms. In the extraordinary siz		 	٠			hPb	div.	div.	. 9-11	1 0	
These plants are particularly remarkable for the extraordinary size of their blooms. I wrightii is very handsome, delieate blue an white shaded. D. chlorantha has a magnifica punicea N. America	773 Datura aurea	5	25	178	Texas	hhA	у.	2	6-9		
These plants are particularly remarkable for the extraordinary size of their blooms. I would be straight it is very handsome, delieate blue and white shaded. D. chlorantha has a mag mificent large double golden-yellow flower richly seented, and is altogether a very find plant. Sow on brisk heat, pot off into loan and leaf-monld, and plant out at the end of June. These plants are particularly remarkable for the extraordinary size of their blooms. I wrightii is very handsome, delieate blue and white shaded. D. chlorantha has a mag white shaded. D. chloran					Contleases	1,1, 4		9	7 0	1	
777 chlorantha fl. pl Texas y 6-9 6 778 fastnòsa il. pl Egypt p. 3 3 789 ferox							1	_	1		These plants are particularly remarkable for
Triangle						1	1			6	the extraordinary size of their blooms. D.
780 fcrox China hA 7-9 3	778 fastnòsa fl. pl.					1	р.	3	•••		
Tell Numata							1				
Record R			ı	1	Cnina	IIA			1-3		
783 Metcl Asia 3 3 3 3 3		1		1	Africa	hΛ	w.		6-9	3	plant. Sow on brisk heat, pot off into loam
784 quereifòlia Mexico li. 7-10 3 June. 7-10 3 3 3 3 3 3 3 3 3	783 Metcl				Asia	1		3			
786 Tátula 787 Wrightii (meteloìdes) 788 Daubentonia magnifica 789 punicca 780 Tátula 780 N. America 780 N. Ame	784 quereifòlia	ļ	.					9			
787 Wrightii (meteluides) Asia hhA w. 2 6-10 4 788 Daubentonia magnifica 17 45 132 gar. var. sS s. 4 6-8 1 0 Fine plants for Stove or warm Greenhouse punieca						J					
788 Daubentonia magnifica 17 45 132 gar. var. sS s. 4 6-8 1 0 Fine plants for Stove or warm Greenhouse 789 punicea	787 Wrightii (meteloides	1		1				2	6-16) 4	1)
789 punicca McXico p 5-9 1 0 { sow in pans and transplant.					gar. var.		1		6-8	1 0	Fine plants for Stove or warm Greenhouse
790 tripetiana Brāzil s. 6-5 1 0 J	789 punieca		1		McXieo						> same in your and transmission
	790 tripetiana	1			Brazil	1	s.		0-5	10	1

	Scientific Name.	L. Cl.	L.0.	N. 0.	Native Country.	H Dur.	Col. of Fi.	Hght	M. of Flow.	Price	
No.		-	00				,	feet		s. d.	
	clphinium cardiopétalon chinense, blue			162	Pyrenecs Tartary	hA hP	ь.	$\frac{1}{2}$	6-7 7-10	3 3	ľ
792 793	— album	•••			gar. var.	• • • •	w.			6	1
794	- azùreum, red spo						b. & r.			6	
795	- cærûlenm, red spo	t					r. & b.	.;.		6	
796	dasycarpum			ł	Caucasus		b.	$\frac{4}{2}$	7-8 6-8	3	Į
797 798	Donkelærii elàtum				hybrid Siberia			6	6-9	3	
799	formosum				gar. var.	hP†	b. & w.	3		3	
800	grandiflòrum		12	i .	Siberia	hP	d. b.	2		3	l
801	— cœlestinum			• • • •	gar. var.		l. b.			6	l
802	Hendersoni			•••	hybrid		b. & w.	3		6 3	
803 804	hy'bridum pietum	•••			gar, var.		b. & w.			3	l
805	triste				Dahuria.		br.	2	7-9	3	i
806	villòsum				Caucasus		b.	3		3	ı
807 _	Wheeleri				hybrid				···	6	Ļ
	esmodium gyrans	17		132	E. Indies	8B	p.	ï	7-8 7-9	$\frac{1}{4}$	1
ຮບອ ມາ 810	ianthus atrorùbens barbàtus	10		91	Italy Germany	իԲϯ հ₽	div.	11	6-10	6	ŀ
811	— scarlet	•••	:::		gar. var.		s.			6	
812	— double						div.			- 6	
813	— Ilunt's superb				•••			•••	•••	6	
814	— dark crimson	1			•••		d. c.		•••	6	
815 816	— striped eaucásiens				Caucasus	ի Pተ	stri.	ï	6-9	6	
817	Caryophy'llns		:::		England	hhP	p. div.			1 0	1
818	— choicest double		1		gar. var.					2 6	
819	— Flake				•			•••	•••	2 6	
320	— Bizarre				•••			• • •	•••	2 6	
821	— Tree or perpe-	,			•••	• • • •	•••	•••	•••	$\begin{array}{ccc} 2 & 6 \\ 2 & 6 \end{array}$	
822 823	— yellow įtua — punctàtus	1			England		•••	•••		10	
324	— choicest				gar. var.					2 6	ĺ
325	white ground				•					2 6	
326	—— yellow					,		•••	•••	2 6	
527	chinensis	4	• • •		China	hP†		•••	•••	6	
328 329	— albus — albo-marginàt us				gar. var.		w. mar.		• • • •	4	
30	- albo-pictus				•••					4	
331	— atropurpurcus									4	
32	— Heddewigi		• • •		Japan		div.	•••	•••	6	
333	— imperiàlis		• • •	••••	gar. var.				•••	6	
\$34 \$35	— laciniatus fl. pl — nànus albus, fl. pl				Japan gar. var.		w.	1 2	•••	6	
356	— — albo-striatus				B		stri.			6	
37	atropurpureus						d. p.	•••	•••	6	
338	— — purpuieus		•••		•••		р.	•••	•••	6	
39	- rubro-striatus			• • •	•••	•••	stri. div.	1	•••	6	
₹40 ₹41	— superb mixed Carthusiànus	1			bybrid			2		6	
342	collinus				Hungary	hΡ	w.	3	7-9	6	
343	corsicus				Corsica"		pk.	2	6-8	6	
344	deltoides		• • •		Britain	hhP	flsh.	3	6-10	6	
345	— albus	•••		•••	•••	•••	w.	•••	•••	6	
846 847	— ruber Garnieriànus		•••	•••	hybrid	hP	r. div.	ï		6	
348	gigántens	1		:::	Greece		р.	3	7-8	ő	
549	guttātus				Caucasus		r.	1	6 - 10	6	
350	hispánicus, mixed				Spain		div.		7-10	3	
551	hy bridus corymbòsus				hybrid		,		• • • •	6	١.
352 353	— double blood-red			•••	•••		d. r. div.	$\frac{\dots}{2}$	•••	6	I
53 54	latifölins splendens mosebàtus		•••		Europe		w. & r.	1		6	1
55	- double garden Pink				gar, var.		w. œ1.			1 0	ľ
56	plumàrius				Europe		w. & p.			6	
357	pulchellus				Siberia		w. & r.			6	Ì
358	superbus				Europe		W.	2	7-9	6	1
59 60	— nànus Voit als				loobrid	•••	div.	1	•••	6	
	Veitebi díseus cærùleus		 96	181	hybrid N. Hollaud	hhA.	b.	2	6-9	6	1
62	pilòsus									6	1
	gitàlis aurea			175	Greece	hP†	gold.	3	7-9	6	ĺ
863 Di 864	gitans aurea	1.3	0,0	110	Italy	11 7 1	br.	4		3	

GENERAL OBSERVATIONS.

The tribe of Delphinium, to which the wellknown Larkspur belongs, is one of the handsomest and most useful of all Perennials, and for large gardens is invaluable. D. cardiopetalon is a pretty dwarf variety, well suited for bedding. The varieties of D. chinense are almost too well known to need comment; but we offer this year several new varieties, which are quite distinct from the older sorts and very beautiful. D. formosum and Hendersoni are remarkably fine kinds, with very large and richly coloured blooms, and if sown early will flower the first year: both sorts are admirably adapted for beds. No. 801, D. grandiflorum ecclestinum, is a charming new variety of a delicate sky-blue colour. Sow in sandy loam in open horder.

Very handsome Greenhouse Evergreen.

The varieties of Dianthus barbatus are the well-known and universally grown Sweet Williams, and the seed we offer of them has been saved from the finest collections in Europe.

The tribe of Dianthus is incomparably the most useful of all Perennials, and for variety and beauty ranks second to none; for no flower can surpass, in delicacy of marking and form and deliciousness of fragrance, the richly-hucd Carnation or Picotee, which has always been one of the most esteemed of Florists' flowers. D. atrorubens is of a beautiful dark-red colour, and well adapted for beds. D. Caryophylins and its varieties are the much-admired Carnations and Picotecs, for the seed of which our House has been celebrated for more than twenty-six years: and this year our varieties are, if possible, finer than ever. D. chinensis and varieties are known as Indian Pinks, perhaps one of the most useful class of plants existing. The dwarf varieties No. 835 to 839 are quite new, and are really invaluable additions to this already celebrated tribe of plants. D. Heddewigi and laciniatus are new sortsfrom Japan, and have a multitude of blooms averaging 3 inches in diameter, and of the most brilliant colours. D. moschatus fl. pl. is the double Garden Pink. D. deltoides, giganteus, and collims are good for rockeries. General mode of treatment for Dianthus may be taken as follows. Sow the seed in spring in gentle heat or in light rich soil, lightly covered, in a situation where it can be protected from bright sun or dashing rain until fairly up: during the summer, transplant to a wellprepared horder, placing the plants about a foot apart, and let them have a slight protection during winter. Sweet Williams, if sown carly, even out of doors, will bloom the first season.

Very pretty. Sow in gentle beat and transplant. Commonly known as Foxglove, a very useful class of Perennials.

	- CA		_ 1	٠.١	Note of			ا يو	ان ج	ئە	,
	Scientific Name.	L. CI	L. 0.	N.O.	Native Country.	H. & Dur.	Col. of Fl	Hght	M. of Flow.	Price.	General Observations.
No.				,,,,		l. a. d.		feet		. d.	
	Digitàlis gloxinoides	14	59	175	gar, var.	հթ†	div.	3	7-9	3	Houselly colled Pountage
366	grandiflòra	•••	• • • •	•••	Switzerland	•••	li. y.	4	***	3	Usually called Foxglove; a showy and har
367	lùtea	•••	•••	• • • •	France	•••	у.	2	••••	3	some class of Perennials, look fine on bar and open spaces in woods. Sow in op
868 200	nivedens	•••		•••	hybrid Britain	lipt	13	4		3	border and transplant, when they will bloom
869 870	purpùrea — alba		•••		Britain		p. w.		•••	3	the same season.
371	- punctàta		•••	•••	•••		spot.	1		3)
	Dillwýnia einèrea	liö	25	132	N. S. Wales	hhS	y.	2	3-7	6	Sow on heat, and transplant.
	Diosma alba				Cape G. Hope		w,			6	Handsome Shrubs for Greenhouse decoration
374	capitàta	ļ					p.		5-6	- 6	Sow on heat, and transplant.
	Diospyros virginiàna			108	N. America	hΤ	y. & g.	20	6-7	4	Mixture of sand, loam, and peat.
576 1	Dipsaeus ferox	4	25	107	S. Europe	hB	p.	3	7~8	6	Sow in good light soil.
377	laciniàtus			1.20	Germany	1::		6	:	6	[]
	Diplachue fasciculàris			123		hA cS	ap.	2	7-9	3	Good garden soil.
	Dipteraeanthus speetábilis	14	39	63 160	Peru	sS hP	pa.b.		8-9	1 0	Sow in loam and peat. American Cowslip, very beautiful.
	Dodecatheon Meadia	19	20		Virginia	1	div.	3	4-6	1 0	american Cowsip, very beautiful.
881 289 1	élegans Dólichos Lablab nana**	17	45	132	E. Indies	gΛ	:::	6	7-9	6)
383	lignòsus**	''						12		3	Ilandsome Greenhouse Climbers: the flow
384	melanophthalmus**]			v.	1		1 0	of D. melanophthalmus are of a violet re
385	martinicensis**									- 6	colour. Previous to sowing the seeds, so
386	purpureus**				•••		p.			6	them in warm water.
387 I	Dràba boreàlis			103	S. Europe	hP	w.	} 1		6	Light rich soil.
388 I	Dracocéphalum canescens	14	58	130	Georgia	:::	р.		7-8	3	Various kinds of Sweet-smelling Balm. \$
389	moldávieum		[!	• • • •	Moldavia	lı A	b. & w.	2	6-7	3	in sandy soil.
390 201 T	— album		50	187	W ludia	sS	W.	6	7 0	3 6	
$\frac{591}{392}$	Duranta Ellisia Plumièri	1	1 1		W. Indies S. America		b.	15	7-8 8-9	6	Sow in peat and loam in hot-house.
	Ebenus cretica	16	45	132	Candia	hhS	pk.	11	6-9	6	Splendid plant, with long spikes of flowers.
	Lehinops bannáticus			98	Hungary	hP	w.	3	7-9	3	1
395	eornígerus				Russia			2	7-8	3	Ornamental Thistles; well adapted for Shr
396	exaltatus				Europe					3	beries: sow in garden soil and transplar
	Echites paniculata	5	25	69	E. Indies	sS		10	6-9	1 0	Handsome Climbers: sow in hot-bed.
	Schium cándicans		•••	81	Madeira	gS	ь.	3	5-6	3	Sow in hot-hed, and grow in sandy loans
899	feroeissimum	• • •	•••	••••	C	hP	-1.	6	5-7	6 6	} peat. Hardy varieties, sow in good gard
900 901	salmántieum violáceum		• • •	, ,	Spain		pk.	3	5-6	6	soil.
	Eleusiue coroeàna	3	26	 123	E. Indies	hA	ap.	2	7-9	3	1
903	íudica	1			2			1		6	
004	oligostáchya				Egypt					6	Ornamental Grasses; light and graceful
905	sp. ex China (Fortune)				China					6	growth; very useful for summer or win
	Elymus Caput-Medusæ		•••	1	S. Europe	•••	•••			3	bouquets.
07	hystrix	1		٠		•••	•••	•••		3	
800	gigánteus	1::					•••	1::-	•••	3 6),
	Engelmannia pinnatífida Entèlia arboreseens			$\begin{array}{c} 98 \\ 133 \end{array}$	Chili N. Zealand	gΤ	. y.	$\frac{1}{2}$	5-6	6	Musk-seented. Sow in mild heat.
		5		109		gS	W.		div.	2 6	Same culture as the Erica.
	Epàeris, <i>finest mived</i> Eragrostis eylindriflòra			123	Australia S. Europe	hA	div.	13	6-7	3]
13	élegans				Italy		۵۲۰.	2	7-9	3	Ornamental Grasses; succeed in any g
914	megastáeliya				S. Europe	1	:::	1 1	7-8	3	garden soil.
915	namaquensis	1			China			1		3	[] "
	Erianthus Ravennæ				S. Europe	hP		5	6-9		Fine Grass, similar to the Pampas Grass.
	Erica arbòrea	8	25	110		hhS	w.	:::	2-6	6	
918	baccans				Cape G.11ope		p.	112	4-6	6	These well-known handsome plants are ed
119	ealycina minor		• • • •					2	5-7	6	monly called Heaths. Prepare the pots ca
$\frac{320}{321}$	coceínca conferta			•••	•••		s.	-	1-12 2-10	6	fully: if water is needed, use a very fine re
$921 \\ 922$	lateralis						w.	• • • • • • • • • • • • • • • • • • • •	$\begin{vmatrix} 2-10 \\ 3-7 \end{vmatrix}$	6	or, rather, flood the pot by pouring the wa
923	margaritàeea					:::	w.		5-9	6	gently on a shell; when moveable, pr
924	multiflòra		1			:::	p.		5-8	G	off six round a small pot, and keep el
925	Plukenetti	\					v.		4-7	6	of air, nuless when frosty: use fibry sa
926	pyrolæflòra		ļ				w.		5-9	6	peat with little bits of charcoal and sa
27	ramentàcea	ļ					d. r.		5-12	6	stone to keep the soil open, and be pa
)28	tubiflòra					• • • •	pk.	2	4-7	6	eular with the drainage. The Europ
929	— species nòva				Evenen	 I. C	0.3.	•••	e 11	6	kinds will grow out of doors in sandy p
930 931	multiflòra — var tubiflòra			••••	France	hS	flsb.		6-11	6	and loam, and make fine beds and edgin
931	— var. tubiflóra stricta			••••	S. Europe				8-11	6	
	Erigeron Beyriehi		51	98	S. Europe		p.	i	6-8	6	1 Committee and N. A. and
934	Karwinskiànum									6	Grow in good light soil.
	Erìnus alpinus			175		hP	b.		3-4	6	Very pretty for rockeries.
	Eriobòtrya japónica	12	·	166	Japan	gT	w.	$\frac{1}{4}$ 15		6	Ornamental for Greenhouse.
			1.30	101	Spain	hP	b.	1	7-8	6	13
	Eryngium aquifòlium plànum	5	20	,181	Europe	1	1. b.	3	7-9	3	Grow in any good garden soil.

	Scientific Name.	L.Cl.	L. 0.	N. O.	Native Country.	H. & Dur.	Col. of Fl.	Hght.	M. of Flow.	Price.	GENERAL OBSERVATIONS.
No.		_				_		feet		s.d.	
	Eryngium rígidum [num	5	26	184	Europe	hP	b.	l	7-8	6	Common garden soil.
940	Erysimum arkansa-				Arkansas	hP†	l. y.	1 1/2	5-10		E. arkansanum has fine heads of golden blossom
941	Barbarea variegatum)		Britain		у.		5-8	3	like a dwarf Perennial Phlox. E. Barbarea
942	Perowskiamım [dron				Palestine	hA	0.		6-9	3	has ornamental foliage.
	Erythrina coralloden	(1	W. Indies	sT	s.	20	5-6	1 0	These superb Shrubs have magnificent bunches
944	crista galli				Brazils	gS			1	1 0	of crimson scarlet blossom, and are generally
946	Hendersoni laurifolia				gar. var. S. America		•••	16	$ \begin{array}{c} 5-6 \\ 8-10 \end{array} $		known as the Coral Trees. E. erista galli wil
	Eschscholtzia californica	13		149	California	hP†	y.	ì	7-10		succeed in borders in the summer, S. of London The pretty bright-yellow and orange blossoms
948	eompacta	1					y. & or.			3	of the Eschscholtzia are to be met with in
949	cròcca						y.			3	almost every garden. E. tenuifolia is deli
950	— alba				gar. var.		w.			3	cately formed and specially adapted for rock
951	tenuifolia			•••	California		y.	2	2	3	cries and edgings.
952	Eucalyptus diversifolia			142		gT	w.	30	5-8	6	Soak the seeds previous to sowing them.
954	Eucharidium coneinnum	,	1	146	N. America	h A	р.	1	4-9	3	I now a second second
955	grandiflòrum — alb um		···		***			•••	•••	6	Pretty cheerful-looking Annuals, growing
956	— roseum		1		gar. var.		w.	:::		6	freely in any good garden soil.
	Eucnida bartonioides	18	48	135	America	hhA			6-8	6	Very pretty pot plant.
958	Eugenia caryophyllata			142	E. Indics	sT	g.	10	3-7	1 0	1
959	Jambos	ļ			•••		g. & y.	20	2-7	1 0	} Fine plants: sow in loam and peat.
960	Euónymus japónicus	5	25	165	Japan	lılıS	g.	6	7-9	6	Ornamental Shrubs - grow in rich corden soil
961	tingens					hS			6-7	G	Ornamental Shrubs: grow in rich garden soil
963	Eupatòrium aromáticum			98	N. America	lı l'	w.	4		6	Easily cultivated hardy Percunials: sueceed
964	eorymbòsum				Europe	•••		;;;		6	best in sandy loam.
	Frasèri Euphorbia crioclàda			110	Carolina	gS LD		1 1	4-5	1 0])
966	Myrsinites	١,,		112	S. Enrope	hP	ap.		4-6		Sow in gentle heat, and grow in fibrons sandy loam.
	Eury'bia argophy'lla	19	5.1	98	N. Holland	gP		•••	1-0	6	Toain.
968	liràta	ŀ	1		···	8.				6	Usual greenhouse treatment.
969	ramulòsa						w.	2	7-10	6	
970	Enstrephus latifòlius	6	25	74	N. S. Wales	sP	pa. p.	3	6-7	6	Sow in heat.
971	Eutòca multiflòra	5		81	California	hA	pk.	1 1	5-7	3	
972 973	viseida			-11	•••		d. b.	1		3	Free-flowering Annuals : grow in good garden
974	— albo-striàta			•••	gar. var.		stri.	•••	•••	3 3	soil.
	Wrangeliàna Fèdia cornucòpiæ			190	California	•••	b.	•••	6 7	3	K
976	seorpioides			186	S. Europe		r.		6-7	3	Common garden soil.
	Felicia angustifòlia			98	C. G. Hope	հեն	pa. b.	6	5-7	6	Sow in heat, and transplant.
978	Fenzlia dianthiflora		25		California	hhA	ro. li.	1	6-10		The second state of the second
979	Festuca glauca			123	S. Europe	hP	ap.	i	6-7	6	Commental Comment Replaces has bright
980	rigida -				'					6	Ornamental Grasses. F. glauea has bright
981	viridis									6	silvery foliage.
082	Pilices, finest mixed			114	div.	sP	div.	div.	div.	1 0	Stove Ferns, in fine variety.
984	Fiornia pulchella Fænfculum vulgåre	5		123	n test	hA LD	ap.	6	6-7 7-8	6 3	Ornamental Grass.
	Francòa appendiculàta	1		184	Britain Chili	ի իհԻ	у.	23		3	Good garden soil.
986	Frenela macrosta-	21	10	99	V. D.'s Land	hS	ro. c. ap.	3		6	Very singular herbaceous plant.
987	triquetra (chya				v. D. s namu					6	Fine hardy Conifers: sow in loam and peat.
988	Fuchsia, choicest			171	hybrid	hhPb	div.	div.	1-12	1 0	Saved from finest named varieties.
989	Fumària sempervirens	17	41	116	•	hВ			5-6	6	Good garden soil.
990	Gaillardia aristàta	19	55	98	N. America	hP†	y.	1	7-10		1)
992	bicolor	•••		•••	Carolina		0.	2		3	Showy and universally admired Perennials
993	hybrida grandiflòra				hybrid	•••	с. & у.		7-9	6	flowering the first year, and among the
994	pieta — albo-marginàta		•••		Louisiana	hhP†	8	•••		3	gayest ornaments of summer flower beds
995	— coccinca				gar. var.		c.w.&y. s.			4	G. hybrida grandiflora is the largest and handsomest: and the dwarf habit of G
996	— Josèphus				•••		o.	:::		4	picta nana renders it of great service in
997	— lùtea				•••		у.			-4	mixed borders. G. picta and its varieties
998	— nàna		1 1				c. & y.	1		4	should be raised on a little heat, and no
999	-1						s. & y.	2		6	turned out of doors before the middle o
1000	pinnatifida				N. America	hP†	y.	:::	6-8	3	May: so long as the soil be light, its com
1001 1002	Richardsoni Wellsiàna		•••		•••	hP	0.	1 1	5-10		ponent parts are immaterial.
	Galèga officiuàlis	17		132	Susin	•••	y. & r.		6-9	3	1
1004	— alba	ı	i I		Spain car var	•••	b.	4		3	Pretty pea-shaped flowers: grow freely in
1005	— lilacina				gar. var.	•••	w. li.	•••		3	good garden soil.
	Galinsògia trilobàta			98	Peru	hA	0.	1 2	8-10	3	Good garden soil.
1007	Gardòquia betonicoldes			130	Mexico	hP	р.	2	6-10	6	Sweet-scented Perennial.
	Gaura Lindheimèria	8	25	146	Texas		w. & p.	2	7-8	3	Good free-flowering Annuals for Shruhberies.
	Genista bractcolata	17	45	132	S. Europe	lıS	у.		6-9	6	Very useful and ornamental Shrubs for Green-
1010	canariensis				Canaries				5-9	3	house, Conservatory, or Flower Garden deco-
1011					Maria San				4-7	6	
1011 1012	candicans cphedroides				Spain Sardinia			4	6-9	6	ration: handsome both in bloom and foliage.

	Scientific Name.	L.Cl.	L. U.	N.0.	Native Country.	H. & Dur.	Col. of Fl.	Hght.	M. of Flow.	Price.	GENERAL OBSERVATIONS.
No. 1013	Genista floribunda alba	17	45	132	S. Europe	hS	у.	feet 3	6-9	s.d. 6	
1014	foliòsa				•••		•••	•••	6-8	6	Sow the seeds in shallow pans and plant out when small; or it is preferable to sow
$ 1015 \\ 1016$	mantica monosperma				•••	hhS	W.	4	6-7	6	
1017	rhodophèna				•••		g.	2	5-7	6	1 110
1018		 			•••	hS	•••	4	3-4	6	glass and grown in pots.
1019				118	Wules	 հP	d. b.	1/4	3-5	3	K
1	Gentiàna acaulis . aselepiàdea		, ,		Wales Austria		u. D.	î	7-8	3	Very useful Perennials. G. acaulis, which has
$1021 \\ 1022$							w.		٠	3	large deep-blue Gloxinia-shaped flowers, if
1023					N. America		ь.	11		3	sown in deep rich loam, makes a splendid
1024					Switzerland		y. & r.	4	6-7	3	
1025					Alps Persia	•••	y. d. b.	1	7-8	3	
1026	Septemfida Gesneria, finestmix'd	14	59	120	S. America	sPb	div.		1-12	1	1/
1028	Geum eoeeincum	12	35	166	Chili	hP	s.	2	6-9	4	
1029	— atrosauguineum						d. s.	•••	•••	6	Very showy, long-blooming, hardy plants: sow
1030		٠			•••		•••	•••	•••	6 4	in sandy loam, and give slight protection at first.
1031						:::	•••			6	
1032	Gilia achilleæfòlia		25		California	hA	р.	112	8-10		
1034		٠			gar. var.		w.	:::	•••	3	
1035		1			N. America		b.	-	6–10	3	
1036					gar, var.		w. b.	:::		3	
$ 1037 \\ 1038$					N. California	:::	w.	3	6-11	3	plots, and may be placed in a rockery. G.
1039					•••		b.	112		3	tricolor and its varieties are the prettiest.
1040	trícolor				California		3-col.	1	7-9	3	
1041	— alba				•••		w.		•••	3	
1042	— ròsea Gladiòlus, finest mixed		•••!	128	hyhrid	hPb	ro. div.	3		1 0	180
	Globulària Aly pum	4		121	S. Europe	hP	р.	2	8-10		
1045	Gloxinia, choicest mixed	14	59	120	hybrids	hPb	div.	div.		1 0	
	Godètia bìfrons			146	Texas	hA	р. & с.	2	8-9	3 3	
1047		···		•••	N. America California	•••	spot.		7-10 8-9	3	
$ 1048 \\ 1049$					N. America		р.		6-11		of the most extensive cultivation, indeed no
1050					•••			1	5-8	3	
1051					•••		pk.	11		3	
1052			٠		Nanani	•••	p.	1		$\begin{vmatrix} 3\\3 \end{vmatrix}$	
$ 1053 \\ 1054$					Nepaul gar. var.		r. & w. w.			3	
1055			, ,		California		pa. r.	2	6-8	3	
1056								.;.		3	
1057					Chili	•••	р.	1	4-8 6-9	3	
$ 1058 \\ 1059$				• • • •	•••	•••	ro.	l.`.	0-:/	3	
1060		:::	•••		California		р.	3		3	
1061	Willdenòvii						ro.			3	
	Gomphrèna procumbens		25		Quito	sP	W.	2	6-7	6	
	Gonospermum élegans Goodia latifòlia			98	Britaiu V. D.'s Land	hP†	у.	3	7-8 4-5	6	
1065			***	102	v. 17. s Dand	8.5				6	
1066	Grammanthes gentia-		30	176	C. G. Hope	hhA	s.	2	7-10		
1067					gar. var.		c.	•••		6	nuals: sow on hot-bed, and transplant into
1068					C C Hana		li.			1 6	good garden soil.
1069	Grindèlia robusta			98	C. G. llope Mexico	hhl?	y.	2	7-9	6	
1071	Grislea tomentòsa [des	8	25	169		sS	r.	3	5-6	6	Usual stove treatment.
1072	: Gnitterezia gymnospermoi-					, hA		1.		3	Hand Form aulture True Cold Form
1073	Gymnogramma chrysophyl.	2.	62	114	E. Indies	sP bD	ap.	$\begin{vmatrix} 1\\20 \end{vmatrix}$	7-9	$\frac{1}{1} = 0$	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1074	Gynerium argenteum ascendens	22	-51	123	S. America	hP		20	7-3	1 0	
	Gypsóphila élegans	10	26	91	Crimea	hA	w.&pk.		6-9	3	
107	— ròsea	1			gar. var.		10.			3	
107					Germany	1. D	pk.	4	6-7	3 3	
1079		1		•••	Siberia Enrope	hP hA	W.		0-/	3	
	Habrothamnus élegans			178		gS	е.	5		6	
108	2 Hackia brachyrhyncha	1:)54	98		hhA	y.	1	7-10		
108	3 Hebenstreitia tenuifòlia	114	1 59	187	C. G. Hope	gS	W.		5-6		
108	4 Hedy'ehium Gardneriànum 5 Heimia salicifólia	1 1	25	174 169	E. Indies Mexico	sP	у.	5	6-8 8-9		
	6 Helènium Douglàsi			98		hA		3	6-8		
-		1		1	1	1	A.I.		4	-	

	Scientific Name.	L. CI	F. 0.	N. 0	Native Country,	H. & Dur.	Col. of Fl.	Hght.	M. of Flow.	Price	GENERAL OBSERVATIONS.
No.								feet		s. d.	
	Helènium tenuifòlinm		54		California	hA	y.	3	6-8	3	Good garden soil.
			26		S. Europe	hP	r.	5	5-7	3	Sow in light soil.
1090	Heliánthus argyrophy'llus califórnicus [chum				Texas California	hA 	րа. y. d. y.	6	7-10	3	Silver-leaved and Californian Sunflower: grow in any garden soil.
	Heliehrysum brachyrhýn-		54		Cumorma	hhA	y.	ì		6	Everlasting Flowers. These flowers are pecu-
1092	bracteatum				N. Holland					3	liarly interesting and desirable as dried
1093	- album [imum			• • •	•••		w.			3	specimens: handsome bouquets may be
1094 1095	compositum max				gar. var.		div.	2		6	formed of them for in door decoration during
1096	macranthum — nanum				N. Holland gar. var.		w.	i		6	the winter, if the blooms be gathered when upon the point of opening: treatment the
1097	- rubrum				gar. var.			2	:::	6	same as for Calliopsis. The Greenhouse
1098	monstròsam				N. Holland		div.	1	6-8	6	varieties should be sown under glass, and
1099	speciosissimum				Cape G. Hope	gS	w.	8	7-8	6	grown in a mixture of loam and peat in the
1100	Stæhelina				***	1 1. 4	i	1 1 2	1-12	6	y greenhouse.
1102	Helióphila arabioides dissecta		01	103	•••	hhA	b.	3 1	6-7	4	Very pretty little plants for bedding or edging: sow under glass, and transplant: 11. arabi-
1103	trífida									4	oides is the best.
	Heliópsis scàbra	19	54	98	N. America	hP	y.	3 5	7-9	6	Good garden soil,
	Heliotròpium corymbòsum	5	25	81	gar. var.	hhP†	d. b.	1	6-10	4	
1106 1107	grandiflorum				•••		b.	• • •		3	The Heliotrope, from its fragrance, is very
1107	— Anna Turrell — Roi des Noirs				•••		v. blk.	• • • •		6	generally admired, and with Geraniums and
1100	pernyiànum				Pern		li.	2		4	Calceolarias forms a good bedding plant.
1110	Triomphe de Liège				gar. var.		d. b.	1		4	Sow in heat and transplant.
1111	Voltaircannn									4	Į į
1112	Heraclemu gigánteum			181	Siberia	hB	w.	12	6-7	3	Good for Shrubberies and game covers.
1113	Wilhelmi Hermannia angulàris	1.6		0.1	Cana C. Hana			3	4-5	3 6	Sow on heat.
1115	Hibisens africanus			83 137	Cape G. Hope Africa		y. w.&dk.	2	6-10	3	Stove varieties, sow in heat, and grow in
1116	ealisirens									3	sandy mellow loam in hothouse in winter.
1117	palustris				N. America	hP	pk.	3	7-9	6	Greenhouse kinds, sow under glass, and
1118	roseus						ro.			6	keep indoors from October to May. Hardy
$\frac{1119}{1120}$	syriacus				Syria	LS	p.	8	8-9	6	sbrubby varieties, sow in April in cold pit,
1121	virgínicus Cameròni		• • • •		Virginia Madagascar	hP sS	r. ro.	2	7-9 6-7	6	and protect for the first season, then plant where wanted, giving them good rich deep
1122	coccinens		:::		matagascar		e.	3		6	loam. Annuals and Perennials, sow about
1123	collinus				E. Indies					6	the beginning of April in good garden soil;
1124	gigánteus					hP				6	but to make the most of the annual kinds,
1125	Harrisòni				N 0 W	sS		0	0.0	6	such as africanus, sow about the middle of
$\frac{1126}{1127}$	heterophyllus immutábilis				N. S. Wales		w.	6	8-9	6	March, in heat, under glass, and transplant good plants, nine inches apart, in the begin-
1128	insignis				E. Indies	:::		10	7-9	6	ning of May: either in a bed or in rows, we
1129	Lindleyi				India		p.	6	12-1	6	know of lew plants that will surpass 11.
1130	macrophy'llus				E. Indies		y.	12		6	africanus when the sun shines upon it. All
1131	Mánihot			•••	China	gS		4	7-9	6	the varieties of Hibiseus are deserving of extensive cultivation, and it is rarely that a
$\frac{1132}{1133}$	moschentos — albus				N. America	gP	p. w.	2	8-10	6 6	greenhouse of any pretensions will be found
1134	— ròscus		•••		•••		ro.			6	without them: a good collection may be
1135	Thunbergi					gS	y.	3	6-8	6	seen in bloom at the Royal Botanie Gardens
1136	vitifòlms		ll		E. Indies	sB		2	7-10) at Kew.
	Hieracium verbascifolium	19	53	98	Europe	hP			6-7	3	Good garden soil.
$\frac{1138}{1139}$	Holens saccharatus			123	China	hhA		12	7-8	3 3	Chinese Sugar Grass, for ornament and fodder.
	10 var. separate Hordenm jubatum		97:	123	N. America	bA		1	68	6	Ornamental Grass.
	Himea élegans [riæfolia						r.	6	6-10		Fine graceful plant.
1142	Hunnemannia Inma-	13	25	149	Mexico		y.	1	6-9	6	Blooms like Tulipa sylvestris.
1143	Hyacimbus amethyshuus	6		7.1	S. Europe	hPb	b .	6	1-5	6	Light sandy soil.
	Hymenáuthera tenuißbrum					hS	у.	1	7-10	6 3	Good garden soil.
	Hymenóxis califórnica Hyoscy'anns pictus			$\frac{98}{178}$	California Britain	hA hB	y. & b.	14	6-7	3	Common garden soil.
	Hypéricum olympicum			98	Dritain	hP	y. cc b.	13	6-8	6	Pretty Perennials: very free growing.
1148	montànum									6	f recey recommo. very nee growing.
	1bèris lagascària			103	Spain	hΛ	W.	1	6-7	3	Candytufts; very pretty in early Spring: sow
1150	semperflorens			•••	Candia	hP		4	4-6	3	in any good garden soil.
1151	sempervirens Hex japónica			1.27	Lanan	lı T	ap.	3		6	Mixed soil of loam and peat.
	Impátiens glanduligera			127 76	Japan England	hA	ир. У.	2	6-9	3	
	Incarvillea sinensis**			79	China	hhS	0.	20		6	Fine Climber: same culture as Calampelis.
1155	Indigófera austràlis	17	45	132			pk.	3	3-6	6	1 Handsome Greenhouse ornaments. 1. tinctoria
1156	coceinca endecaphy'lla				Sierra Lcone		5.	4	7-8	6	is the Indigo of commerce. Sow in hot-bed, and grow in peat and loam in greenhouse.
1157	eytisoides Dosna				Cape G. Hope	1	r.	2	4-7	6	The Red Spider should be earefully looked
		1			Nepaul		10.				
1158 1159	filifolia				Cape G. Hope		p.	2	7-8	6	after; may be destroyed by Parmenter's Pre-

22 				0	Native Native				jo je	,		Course Occasion
	Scientific Name.	1.0	F.O.	N. (Country.	H. & Dur.	Col. of Fl.		M. of Flow.	Price	:	GENERAL OBSERVATIONS.
No.	I) :- (C)	17	15	132	F Indias	σS	ro.	feet 4	6-8	8.6	l. 6	٦
1162	Indigófera ròsea Roxhurghi				E. Indies	gS 		• • • •			6	For description, &c., of the Indigofera, see
1163	tinetòria						pk.	3 5	6-9		6	preceding page.
1164 1165	violàcea Inopsidium acaule	15	60	103	S. Enrope	hhP	у. b.		 4-10		$\frac{6}{6}$	Charming plant for pots, vases, or rockeries.
	lpomæa Bona Nox**	5	25	100	W. Indies	hhA	w.	10	7-10		3)
1167 1168	ehryseldes** digitàta**				China W. Indies	gP 	у. р.		$6-10 \\ 8-10$		0 6	Convolvulus. Of all flowers in general culti-
1169	ficifolia**				Buenos Ayres	gPb	° b.	3	10-12		6	vation, the lpomæa ranks pre-eminent for delicate and intrusic beauty: the brillian
1170	grandiflora**			•••	E. Indies hybrid	gA gPt	w. р.	$\frac{8}{10}$	9-12 5-6			and varied hues of its many species and vari
1171 1172	Hardingi** Leari**				S. Europe	gA	b. v.	9		1		etics are marvellously beautiful, and their finefoliageand graceful forms render them in
1173	macrorhìza**				Guinea	gl'	pk. w.	10 15	7-8 7-9		$\frac{0}{6}$	separable adoruments for every Greenhouse
$\frac{1174}{1175}$	quercifòlia** reniformis**				N. Holland	gΛ	y. & v.	20			6	Conservatory, Hothouse, or general garder
1176	rubro-cærulea**		1 .		Mexico	gP	sky h.		9–11		6	throughout the kingdom. As all the plants belonging to this tribe are handsome, it is a
1177 1178	— alba** species ex Pegu		1 1		Pegu		W.	:::		11.0	0	work of great difficulty to select any for
1179	tuberòsa**				W. Indies		pa. y.	10	7-9	1		particular recommendation; we will, however, specify a few that are the most marked
1180	tyrianthina** Willdenòvi**				California E. Indies		d. p. p.	•••	7–10 6–8	12	6	in their characteristies. I. rubro-cærulea is
$\frac{1181}{1182}$	eoecinea**				W. Indies	hhA	s.		6-9		3	perhaps unequalled for the size and beauty of its blossoms of a hrilliant sky-blue colour
1183	lùtea**				hybrid		у. b.				3	I. Quamoclit, I. eoceinea, and their varieties
$\frac{1184}{1185}$	Ferrandiniàna** hederàcea**				N. America				7-10)	3	would mingle admirably with the well-known Canary Creeper. 1. bederacea and varieties
1186	— superba** [**				gar. var.	•••	b. & w.	•••			6 6	are very beautiful; but the most interesting
1187 1188	— — atroviolacea — — lilacina**						d.v.&w li. & w.				6	variety of late introduction is 1. limbate
1189	limbàta**	ļ			Java		v. & w.	2			3	clegantissima, which has a five-pointed star of intense violet-blue, with a broad margin
1190 1191	—elegantissima** Nil**			•••	gar. var. America	•••	d.p.&w l. b.	3 10	7-9		$\frac{6}{3}$	of pure white. Such kinds as digitata, gran-
1192	— grandiflòra**				gar. var.		ъ.				3	diflora, and rubro-exrulea require strong heat to raise seedlings, but will afterwards
1193	purpurca**			ł	America		div. d. v.	6			3 3	grow well in a moderate greenhouse.
1194 1195	— atroviolàcea** — Burridgi**				gar. var.		e.				3	Greenhouse varieties of this charming tribe do not require much heat: Half-hardy kinds
1196	— Dicksòni**				•••		b.	•••			3	should be sown on slight hot-bed, and
$\frac{1197}{1198}$	— ròsea** Quámoclit**				N. India	:::	ro. s.				3	transplanted out of doors in May: light rich
1199	alba**						w.				3	loamy soil is suitable for all.
1200	— ròsea** Ipomopsis Beyrichi			81	Carolina	fP†	10. s. & y.	3	8-9		$\frac{6}{3}$	
1202	elegans						s.	•••			3	Most beautiful plants for beds, with long spikes of scarlet and orange flowers. Sow
$\frac{1203}{1204}$	picta — aurantiaca			ı	•••	•••	s. & y. or.	• • •			3	in well-drained pots in fibry loam : keep in
1204	— superba						s.	•••			3	greenhouse in winter, and plant out in June
	Isótoma axillàris			87	N. Holland	hltP	b.	1	6-9		4	Very pretty, long-blooming plants, good for beds. Sow in heat, prick out, harden off
$\frac{1207}{1208}$	petræa — cærûlea	1					r. b.	•••		ĺ	4	and plant ont in May.
1209	Isopy rum finnarioides	13	35	162	Siberia	bΛ	w. & g.	2	6-7		3	Good garden soil.
	Ixòdia alàta Ixora Bandhuca			98 167	E. Indies	gS sS	w. flsh.	3	4-9 7-8		$\frac{6}{6}$	Usual greenhouse treatment.
1212	barbata						s.				6	Magnificent stove plants: sow in hot-bed, and
$\frac{1213}{1214}$	coccinea parviflora	···					 W.	$\frac{4}{20}$	8-9 8-10		6 6	grow in peat and loam with plenty of botton heat.
1215	undulata	ļ						4	6-8		6	J
	Jasminum friitieaus** Juniperus ly'eia			129 99	S. Europe	hS	у. ар.	3 10	$\frac{4-10}{5-6}$		$\frac{6}{6}$	Jessamine. Sow under glass and transplant.
1218	nacrocarpa				Greece						6	Juniper Tree: well-known useful Shrubs. Sow in gentle heat, and plant into pots when
1219	Oxycèdrus				S. France			 5			6 6	sufficiently large: very good for Sbrub-
$\frac{1220}{1221}$	squamòsa virginiàna				Nepaul						6	beries, &c.
1222	Justícia multiflòra	2	25	63	E. Indies	sS	pk.	2	7-8		6	Handsome Tree.
$\frac{1223}{1224}$	Kaulfussia amelloides — alba	1	51		Cape G. Hope gar. var.	- hA	b. w.	3			$\frac{3}{3}$	Dwarf hardy Annuals: good garden soil.
1225	— ròsea	ļ					ro.			ŀ	3	
$\frac{1226}{1227}$	Kennedya apetala** andomoriensis**	17		132	N. Holland	gS	ар. Р-	6	6–7		6 6	These Climbers are among the most striking of Greenhouse ornaments, and deserve more
1228	bimaculata**				N. S. Wales			3	6-8		6	extensive cultivation than has hitherto beer
$\frac{1229}{1230}$	Comptoniana**				N. Holland		b.	12 6	3-8 4-5	1	6 0	extended to them, and few plants are more serviceable for Conservatory decoration; their
$\frac{1230}{1231}$	digitata** eximia**				Swan River Java		s. & y.		5-6	Įi.	()	bright colours impart a most cheerful appear-
1232	longifolia**				Swan River		r.		4-5		6	auce during the early part of the season, and if trained round fauciful wire shapes a peeu
$\frac{1233}{1234}$	longiracemosa** Lindleyana**				N. S. Walcs		pk.& o. v.	3	6-7	1		liarly interesting effect is produced.
3-01										l.		

	Scientific Name.	L.C.	1.0	N.0	Native Country.	H. & Dur.	Col. of Fl.	Hght.	M. of Flow.	Price.	GENERAL OBSERVATIONS.
No.	Kannadya manina at	1.0	4.5	190	N C W			fee		s. d.	
1235	Kennedya mariana** Makoyana**					gS	s.	4	6-7	6	
1237	Marryattæ** [**				Australia		b. s.	3 4	6-7	1 0	
1238	monophylla alba		1		Australia	:::	w.			6	
1239	ovata**				N. Holland		p.	6	5-8	6	General instructions for sowing:—Steep the seeds in warm water for six hours, sow in
1240	— nova**				•••		i			1.0	sandy peat and loam, and place in hot-bed
$1241 \\ 1242$	— alba**				•••		w.		• • • •	6	in April : harden off the seedlings by degrees,
1243	prostrata** rotundifolia**				N. S. Wales		s.	5	6-9	6	in order that they may stand in the Green-
1244	rubicunda**				IV. D. Wates		r.	10	n 0	6	house or Conservatory during summer.
1245	Sieberiana**				•••					6	
1246	Sieboldti**									6	
	Knautia orientàlis			107	Levant	hA	• • •	1	6-9	6	Good garden soil.
	Kölrentèria panienlàta Lagerstræmia índiea			172 169	China	hT	у.	10 6	7-8 8-10	6	Sulandid Stone plant, usual bothouse treet
1250	regina	10	1			sS 	р. r.	12	0-10	6	Splendid Stove-plant: usual hothouse treatment.
	Lagirus ovàtus	3		123	Guernsey	lıΑ	ap.	1	6-7	3	Ornamental Grass (Hare's-tail).
	Lantana, finest French	14	59	187	divers	bhS		div.	div.	1 0	Beautiful bedding plants : sow in hot-bed, and
1253		ļ			gar. var.			2	6-8	6	transplant.
1254	Lapageria rosea**			177	Chiloe	gP	ro.	10	9-3		The finest Climber in enlitivation.
	Lasiopétalon solanàceum	5		83	N. Holland	gS	w.	3	4-7 5-10	6	Usual greenhouse treatment.
	Lasthènia ealifornica Láthyrus azüreus**			$\frac{98}{132}$	California	hA	y. b.	4	$\frac{5-10}{5-8}$	3 4	Common garden soil. All the varieties of Lathyrns are very ornamental
1258	latifòlins**				England	hP	pk.	6	6-9	3	and being hardy and of quick growth, they are
1259	albus**						W.			4	of great use in covering trellises or in the
1260	mutábilis**				Siberia		pa. r.	4	6-8	4	formation of arbours.
	Laurus Ceràsus			166	Levant	hS	w.	12	4-5	3	
1262	colchica			131						3	All the varieties of Laurus are very orna-
$\frac{1263}{1264}$	indica	1			0.11	hT		• • •		3	mental: grow best in a mixture of loan
1265	lusitánica nóbilis				S. Europe			15		3 3	and peat.
	Lavándula Spica	14		130	ltaly S. Europe	hP	g. & w. li.	2	7-9	6	11
1267	Steechas				S. Editope	hS		11	5-9	4	Fragrant plants: sow on heat, and transplant
	Lavatèra arboresceus	8	48	137	Britain	lıhP	p.	6	7-10		ĺ
1269	armeniaea					hΡ				6	Good garden soil.
1270	marítima			120	S. Europe	ldiS	w.	2	4-6	6	J
	Lebeckia cytisoides Leptandra virgínica			132 175	Cape G. Hope		pk.	3 5	4-7 7-10	6 3	Camanan aradan asil
	Leptosiphon androsaceus			81	Virginia California	hP ltA	w.	í	6-10		Common garden soil. A most useful class of hardy Annuals. L.
1274	— albus	1					w.	i		3	densiflorus albus is one of the purest of
1275	lilaeinus						li.			3	white flowers, and blooming in masses is
1276	aureus						0.	1 2		4	admirable for beds. L. anreus is an ex-
1277	densiflòrus				•••		p.	1		3	tremely pretty dwarf plant of a rich golden
$\frac{1278}{1279}$	— albus — nànus				gar. var.	•••	w.			3	colour, suited for pots, rock-work, or edg-
1280	lùteus			:::	California		p. y.	3 4		3	ings. All the varieties are of easy culti- vation, growing freely in any good garden
1281	newdwarf hybrids				hybrid	:::	div.	1 2		1 0	soil.
	Leptorhýnchus squamàtus		111		,			2		6	,
1283	Leptospermum flavescens	12	25	142	N. S. Wales	gS	w.	5	5-7	6	Fine Greenhouse plants.
1284	lanigerum			•••	•••				•••	6	The dreemouse planes
	Leucáuthemum Icratiànum		30	161	0 0 11	-m		3		6	()
1287	Leucodendron decòrum plumòsum	4	23		Cape G.Hope		y.	4	6-8	6	Ornamental Greenhouse plants. Sow on heat, and transplant.
	Ligustrum japónicum	2		145	Japan	hS	w.	- 14	5-6	3	Good for shrubberies.
1289	Lílium colchicum			133	China?	gPb			7-10	6	
1290°	Mártagon					hPb		2	5.6	6	Sow on heat in light soil.
1291	Limnanthes alba	10		134	California	hA	w.	2	6-10	3	Elegant and slightly fragrant Annuals, very
$\frac{1292}{1293}$	Douglàsi				•••		y. & w.		•••	3	free-blooming, contrasting well with Nemo-
$\frac{1293}{1294}$	grandiflòra ròsea				•••	• • • •		• • •		3	philas : good for beds, clumps, or edgings :
$\frac{1294}{1295}$					•••		ro. sul.	• • • •		3	easy of cultivation, growing freely in any
1296	aurea nova						y.			3	good garden soil.
1297	Linària bipartìta			175	Barbary	hhA	p.		6-9	3	ĺ
1298	—alba				gar var.		W.			3	
$\frac{1299}{1200}$	— splendida				·		var.			6	Very pretty flowers. L. bipartita and va-
$\frac{1300}{1301}$	Hendersôni				•••	•••		1		3	ricties are among the prettiest Annuals
1302	Perezi purpùrea			•	S. Europe	ii. hP	p.	1	7-9	3	grown, and when in full bloom resemble small compact bushes of blossoms: the
1303	ругенајеа				S. Europe	1117	Р.	1	7-3	3	tender varieties may be sown under glass,
1304	reflexa									3	and the others in the open borders.
1305	trioruithóphora				Portugal	hhP†	p.	3	6-9	3	•
1306	spartea				Spain	hA	у.		6-10		
1307					Barbary	hhPf		1		3)
1308					Sicily	D A	y. & p.			U	e t

	Scientific Name.	L.CJ.	L. 0.	N.O.	Native Country.	H. & Dur.	Col. of Fl.	Hght.	M. of Flow.	Price.	GENERAL OBSERVATIONS.
No.		-	-	98	Тана			feet 2	S-10	s. d.	Cood wardon coil
	Lindheimèria texàna			91	Texas Austria	hA hP	y. b.		7-8	3 6	Good garden soil.
310 311	Linum alpinum campanulàtum				Europe	l	у.	1914 Se 1	6-8	6	W
311	flavum				Austria	hliP		3		6	Well-known Annuals and Percunials.
313	grandiflòrum	,			S. Europe	hP	b.	1		3	scarlet is one of the handsomest Annua ever introduced, in brilliancy of colo
314	— album						w.			3	being surpassed by none; it is also mu
315	— scarlet				Algeria	hhA	e.		6-10	4	to be recommended for its long durati
316	Lewisi				N. America	hP	b.	3	6-8	3	in bloom. L. flayum and Inteum corym
317	— variegàtum			•••	gar, var.	;::	var.	 1	6–7	3	florum are two beautiful golden-yelle
318	luteum corymbi-	···			Crimea S. France	∣ hA hhP	у. b.	2	5-7	6	varieties, much to be recommended. So
319 320	narbonense [florum perenne				England	hP	р.	3	6-8	3	in pans in light mould.
321	— album						w.			3)
	Lippia purpurca			187	Mexico	gS	r.		6-7	6	Usual greenhouse treatment.
	Lisianthus Russelliànus			118		gA	p.		10-12		Splendid Greenhouse Annual.
		-)	135	Tuenman	hhA	0.	6	7–10	3	Beautiful Climbing Plants, suitable for coveri
325	llcrberti**			•••	hybrid	:::	s.	2	6-9	3	trellis or wire-work: sow in hot-bed and pla out.
326	trícolor			87	Chili Cape G. Hope	hA las D	у. b.		6-10	4	A most elegant and useful genus of dw
$\frac{327}{328}$	Lobèlia campannlàta Erìnus	1				հհ₽ 		1 2		4	plants of easy culture, well adapted
$\frac{328}{329}$	— compacta				gar. var.		d. b.	1 7		6	bedding, edging, pots, or rockeries; I
330^{-3}	— grandiflòra					:::		1 1 2		4	belias, in fact, are employed as universa
331	— marmoràta				.,.		b. & w.			1.	in the general Summer garden as Scar
332	- maxima						b			4	Geraniums, to beds of which they form
333	— oculàta alba						w. & b.			4	neat and effective edging: the varieties
334	- ramosoides	i i		• • •			•••	•••		4	I. Erinus arc generally used for this propose; yet by some the varieties of
335	— ròsca		100	• • •	•••		ro.	•••	•••	6	ramosa are preferred, which, though larg
336	— speciosa				N. S. Wales	•••	d. b.			6	in bloom, are neither so elegant nor co
33 7 338	formosa grácilis			•••	IV. S. Wales	hhA	 b.	trai	7-10	3	pact. L. speciosa is the finest of all, fro
339	— alba	1			gar. var.		w.			3	its intense dark-blue colour with a cle
340	— erecta						l. b.	1		6	white spot and its dark-coloured folia
341	— ròsea nòva						ro.			4	The varieties of L. gracilis are the b
342	heterophy'lla			• • •	V. D.'s Land		d. b.	1 2	···	6	adapted for rock-work, pots, or suspend
343					hybrid	hhPf	S.		6-10 7-10	6	baskets to droop over. The seed of Lobel being very small, cover very slightly wh
344	ramòsa			•••	Swan River		d. b. w.			4	sown: sow in hot-bed, prick out, and gr
$\frac{345}{346}$	— alba — nàna				gar. var.		d. b.	1		4	dually harden off: if grown in pots, let the
347	— rùbra						r.	2		4	be well trained. A light rich soil is su
348	— triquètra						d.b.	1		6) able for all the varieties.
	Lonícera balcàrica			30	S. Europe	hS	st.	10		G	Sow in good friable soil.
	Lopèzia coronàta	1		146	Mexico	lıΑ	r.		7-9	3	Good garden soil.
351	miniàta [dens**					gS	р.		$9-11 \\ 6-10$	6	Usual greenhouse treatment. Extremely handsome Climbers. Sow in he
	Lophospermum scan- — Cliftoni**				ludeid	hhP†	d. ro.		0-10	6	bed in light sandy loam, prick off, pot a
353 354	— Hendersoni**				hybrid	•••	ro.			6	re pot, and by the end of May transfer
355	— Jacksoni**									6	cool Greenhouse, Conservatory, or favoural
356	- Rhodochiton**				Mexico		s.			1 0	positions in the garden.
	Lòtus cytisoides			132		hA	у.	1	7-8	4	
358	corniculàtus				Britain	hP		1 1 2	6-8	6	Very pretty pea-shaped flowers. L. cornic
359	hirsùtus					հհР	.::	2		4	latus multiflorus is a profuse bloomer, fi yellow blossoms for horders or rockeri
360	Jacobæus				C.Verd Isles	hhS	blk.	1	1-12	3	L. Jacobæus is exceedingly neat and pre
361	— lùteus				S. Enrope	hP	y. flsh.	3	6-9	3	as a pot plant, the flowers being almost
362	rectus seríceus				Mussoorec	hA	y.	1 2	7-8	6	ivory-black.
$\frac{363}{364}$	suavĉolens				AT GOODIEC	ALZE.	3.	2	, ,	6	,
	Lupiuns affinis				California	hA	b. & w.	1 2	6-10	3	Lupinc. This class of plants is perhaps me
366	californicus									3	generally known and cultivated than a
367	Hartwègi				Mexico		d. b.	2	6-9	3	other, and merits the favour accorded to
368	— albus				gar. var.	• • • •	W.			3	L. hybridus insignis and superbus are rea
369	- cœlestinus					•••	l. b.			3	fine plants with long spikes of richly color
370	— persicus		1				b. var. ro.			6	ed blossoms. L. Menziesi has perhaps t
371 372	— ròscus hirsutíssimus				California		li. r.			3 3	handsomest spike of bloom of all, the pla when well grown forming a candelabra
373	hybridus insignis				hybrid		d. r.			3	when well grown forming a candelabra with beautiful sulphur-coloured flowers.
374	— Dunnetti su-						r. b.&y.			3	subcarnosus is exceedingly rich in colo
375	leptophyllus[perbus				California		l. b.	i	7-10	3	viz. ultramarine blue, erimson, and purp
376	Menzièsi						sul.		6-9	6	and is worthy of more extended cultivation
377	Moritziànus		ļ		America		b.	2	7.0	3	1. nanns, nanns albus, and affinis, fro
	mutábilis				Bogota		b. & y.	4	7-9	3	dwarf habit, are peculiarly suited for he
						1	var.			63	
379	— Cruckshanksi				Peru			•••		3	
378 379 380 381	— Cruckshanksi — variecolor nànus				gar. var. California		div. var. b.			3 3	in which position they show well. L. Ha wegi and its varieties are good in habit a colour.

	Scientific Name.	L.Cl.	L.0.	N. 0.	Native Country.	H. & Dur.	Col. of Fl.	Hght.	M. of Flow.	Price.	GENERAL OBSERVATIONS.
No.	Lupinus pubescens	17	45	132	California	hA		feet 2	7-8	s. d.	
1384	— élegans		1		gar. var.	1	V.		1	3	L. mutabilis variecolor is a singularly interesting
1385	subcarnosus				Texas		թ.v.& w. li. c. p.	ï	6-10		variety, the same seed producing a great va-
1386	succulentus				1	:::	Ъ.			4	ricty of distinct colours, varying from pure white to purplish crimson. Sow in garden
1387	venustus		ł	ſ	America	1	li. & p.	2	7-8	3	white to purplish crimson. Sow in garden
1388	arbòreus		ļ _.		California	hS	y.	6		6	soil in April; but to have such varieties as llartwegi and Cruckshanksi splendid, sow in
1389	Douglàsi	ł i				hP	b.	2	6-10	3	heat in March, grow separately in pots, and
1390	élegans			• • • •	Mexico		0. & w.			3	turn out into good rich soil in the month of
1391	grandifòlins	1 1			N. America		р.	21		3	May: it is preferable, as a general rule, to
1392	guatemaleusis		• • •		Guatemala		d. v.	2		3	sow the annual varieties where it is intended
1393	magnificus	l			gar. var.		d.b.&w.	4		6	they shall bloom. L. magnificus is very hand-
1394	polyphy'llus				Čolumbia		b.		6-8	3	some. L. arboreus is a fine shrub, with spikes
1395	albiflórns	 			•••		w.			3	of bright-yellow flowers. L. polyphyllus and
1396	mixed Annual			•••	div.	hA	div.	div.		6	albus are respectively known as the blue and
1397	— Perennial					hP				6	white perennial Lupine.
1398	Lusania calycina			178	Uraguay	hhP	w. & b.	1.		6	Good garden soil.
1399	Lychnis chalcedónica	10	30	91	Russia	հեր	s.	2	6-7	3	Handsome and useful Perennials. L. chalce-
1400	— alba				•••	•••	w.			3	donica is to be met with in nearly every
1401	- mutábilis	 			•••		var.			3	garden, and deserves its position. I. fulgens
1402	eorsica				Corsica	•••	r.	1 2		3	is brilliant in the extreme. L. Haageana is a
1403	Flos Jòvis				Germany	hP	•••	11		3	new hybrid. L. corsica is suitable for rock-
1404	fulgens				Siberia	hhP†	s.			-6	work. Sowall the Lychnides in a nice sheltered
1405	Haageana	J			hybrid	hP†	r.		6-8	1 0	place, and plant out.
1406	Lysimachia Ephémerum	5	25	160	Spain	hP	w.	2	7-9	- 6	
1407	Lythrum roscum superbum	11		169	Britain		ro.	4		3	Showy border plants. Sow in good garden
1408	virgàtum		• • •		•••					3	soil.
1409				185		hT	ap.	20		3	Osage Orange.
1410	Madària élegans	19	54	98	N.W. America	hΛ	ÿ.	11		3	
1411	corymbòsa			• • •	California		w.			3	Sow in garden soil in shady situations.
1412	Magnòlia grandiflòra	13	35	136	Carolina	hT		20	6-7	6	Splendid Tree, richly scented blossoms,
1413	Magydàris tomentosa					hhS			1	6	Fine ornamental plant.
1414	Málope trífida	16	48	137	Barbary	hA	р.	1 1	7-10	3	Prop Manning shows Assessed a succession to
1415	— grandiflòra						c.	2		3	Free-blooming, showy Annuals; succeeding in
1416	— alba				•••		w.			3	almost any soil.
1417	Malpighia glábra			192	W. Indies	sT	r.	16	3-7	6	Barbadoes Cherry.
1418	Malva capensis	16	48	137	C. G. Hope	hhS	·	10	1-12	6)
1419	crenulàta				S. Europe	hP	·	-1	6-8	3	Plants of similar character to the Malone, but
1420	variegàta				•••		var.			3	Perennials: sow under glass, harden off,
1421	Morèni				Italy .	•••	r.		7-8	3	and transplant.
1422	zebrina		•••		S. Europe	-hA	р.	6	6-7	3	1)
	Mandevillea suavèolens**	5	25	69	Buenos Ayres	gS	W.	20	6-8	4	Fine fragrant Greenhouse Climber.
	Manidea fœtida	14	59	175	C. G. Hope	gA		1 1	6-9	6	Highly amomoutal slants
1425	violàcea		• • •			sP	v.	2	7-9	6	} llighly ornamental plants.
	Marty'nia angulàris			151	America	hhA	ł. p.		7-8	3	Extremely handsome, large-flowered Annuals,
1427	Craniolària		• • •		S. America		w.			3	deserving of the most extensive cultivation.
1428	fragrans		•••		Mexico		p. stri.			3	M. fragrans is beautifully striped.
1429	litea		••••		Brazils		у.	• • • •		3	Sow in mild hot-bed, pot off into small pots, and
1430	proboseídea		•••		America		1. b.	3		3	keep warm until growing freely.
	Maurándya antirrhi niflóra		•••	175	Mexico	gS	р.	10	4-9	6	These superb Climbers, in conjunction with
1432	Barelayàna			•••	•••	•••	s.	•••		6	the different vars. of Lophospermum, cannot
1433	— alba	1 1	•••	•••	seedlings	•••	w.	•••	•••	6	be too highly recommended. Sow in sandy,
1434	— Emeriana	•••	•••	•••	•••	•••	р.	•••		6	peaty soil, or loam and leaf-mould in slight
1435	— — violacea			•••	•••	•••	v.	•••	•••	6	blot-bed, priek off into pots, and encourage
1436	kermesina	1	•••		•••	• • • •	e.	•••	•••	6	growth by re-potting. About May remove to
1437	— Luceyana	1	•••		•••	•••	ro.	•••		6	cool greenhouse, conservatory, or train in
1438	— purpurea		• • •		,,	•••	d. թ.	•••		6	columns in the flower-garden, removing
1439	semperflorens			•••	Mexico	•••	р.	•••	10-12	6	them before the arrival of frost.
1440	violacea				gar. var.	;*;	v.	•••	•••	6	1.7
	Melampòdium macranthum					hA		4.00		3	Good garden soil.
	Mèlia Azedaraeli			139	Syria	hhS	, b.	40	6-8	6	Very handsome Shrub.
1443	Meliauthus major			168		gS	br.		5-7	6	Usual greenhouse treatment.
	Mèlica pyramidàlis	1 1		123	Barbary	hP	ap.	1 1	6-7	6	Ornamental Grasses.
1445	Browneána				ltaly			•:•		6)
	Melissa officinàlis	14	อช	130	S. Europe		w.		6-10	3	Sow in light rich soil.
1447	grandiflòra						•••	•••	٠٠. ا	3)
1448	Mesembryanthemmu capi-				C. G. Hope	hhA	pa. y.	•••	5-9	3	Dwarf-growing Annuals of great beauty, well
1449	glabrum [tàtum				•••		у.		7-10	3	suited for edgings and covering banks or
1450	pinnatífidum		•••		•••			•••	5−10	3	rockeries fully exposed to the sun. Sow in
1451	pomeridiànum				•••					3	hot-bed in sandy loam; when fit, prick off,
1452	tricolor		•••	•••	•••		e.	3	6-10	3	and about May plant out in sandy soil.
1453	— album		•••				W.			3	
	Méspilus japóniens		•••	166	Japan	hhT		10	5-6		Loquat Tree of Japan.
1404					AT Amanina	hT			6-7	6	Coul marrier coil
1455	pyraeanthifòlia Milium multiflorum			123	N. America S. Europe	hP	ap.	։։ 1 ե	0-7		Good garden soil. Very pretty ornamental Grass.

	Scientific Name.	r.c.	r.0.	N. 0.	Native Country.	H. & Dur.	Col. of Fi.	Hgbt.	M. of Flow.	Price.	GENERAL OBSERVATIONS.
		-	-					fect		s. d.	
No.	Winneston and halis	14	59	175	N.W. Amer.	hhP†	s.	2	7-9	8. a.	Strikingly liandsome flowers, among the gayest
1457	Mimulus eardinalis — atrosanguíneus				gar, var.		d. s.			6	ornaments for conservatory, greenhouse, or
1459	lùtens				America		у.	ا ٠٠٠٠	6-9	ti	general flower-garden. M. mosehatus is the
1460	moschàtus			•••	Columbia	•••	l.	34	•••	3	well-known Musk Plant. Sow under glass in
1461	finest mixed		40	104	gar. var.	lıhA	div.	6	6-8	6	a little heat, prick off the seedlings. Very enrious trailing plants, with foliage like
	momoraica masamina	- 1			India E. Indies		у.			4	the Canary-bird Creeper: the fruit of M. Bal-
$\frac{1463}{1464}$	Charántia** Elatèrium**				S. Europe		•••			- 6	samina is very curious and handsome.
	Morina longifòlia			107	India	hhP†	r.		7-11	6	Light rich soil.
	Morna élegans	19	53	98	Swan River	hhA	у.	2	6– 8	3	Usual greenhouse treatment.
	Mulgèdium fimbriatum	17	äi	155	C. G. llope	hA hhS	р.	6	1-12	6	Sow in heat and transplant.
				150	E. Indies	gP	P.		6-8	6	Everlasting Flower.
	Myopòrum dulce									6	
	Myosòtis alpestris	5	25	81	Switzerland	ի հՔ†	lı.	1,01	6-9	3	Forget-me-not. These beautiful little flowers are too well known to need recommenda-
1472	— allıa	• • •	•••		A		w. d. b.		8-11	6	tion; will grow around fountains, over damp
1473	azorica		•••		Azores Britain		b. & y.	7	4-8	3	rockeries, or in any moist situation. M.
$1474 \\ 1475$	palustris — alba			•••			w.			4	azorica has the largest bloom.
	Myrrhis odorata		26	184	•••	hP		11	5-6	4	Good garden soil.
1477	Myrtus communis			142	S. Europe	hS	• • • • • • • • • • • • • • • • • • •	Ű	7-8 6-9	3	Myrtle, sweet-scented.
		14		175	C. G. Hope	hhA	w. & y. var.	1	υ- <i>υ</i>	3	Exceedingly pretty and profuse-blooming
1479 1480	versícolor — alba	•••			gar. var.		W.			3	plants. N. compacta and alba should be
1481	— compacta						var.	10	• • • •	- 6	grown in every garden. Sow on hot-
1482	— — alba	•••		•••			w.		•••	6	bed, and grow in peat and loam; turn out
1483		•••		•••	•••	•••	b.	•••	•••	1 0	about the end of May.
1484	— La superbe			81	California	hA	ro. w.spot.	1 2	 6-10	$\frac{1}{3}$	K
1486	Nemophila atomária — eœlestis	•••	•••	•••			b. spot.			3	
1487	— oeulàta				gar. var.		b.w.blk		•••	6	These extremely pretty Annuals are more cul-
1488	discoidàlis	•••		•••	California	1 1	blk. w.		•••	3	tivated than any other, and for case in cul-
1489	— marmoràta	• • • '	•••	• • • •	gar. var.		mar.	•••	•••	3	ture and profuseness of bloom are unsur-
1490	insignis — alba	•••			California gar. var.		b. w.		•••	3	passed. N. discoidalis, insignis, grandiflora,
$1491 \\ 1492$	— aroa — grandiflora				541. 141.		b.		•••	3	and maculata are the finest varieties. Ne- mophila will grow in any soil and may be
1493	— — alba				•••	\	w.		•••	3	sown several times during the year, and
1494	— marginàta	٠٠٠٠		•••	•••		w. & b.	1 1	•••	3	may be induced to bloom very early if
1495		•••	•••	l .	California	***	stri. w. & p.		•••	3	treated in the manner given for Calliopsis.
$\frac{1496}{1497}$	maenlàta — folio variegata	•••	• • •		California gar. var.		₩. сс р.	:::		6	
1498					N. America	hP†	ь.	1		3	
1499	Nerium Oleander	5	25	69	S. Enrope	hhS	ro.	8	•••	6	Fine flowering Shrubs. Sow in heat and put out of doors in summer.
1500			58	130	Siberia	իլ։ իլ՝	 b.	1	6-8	3)
1501	Nepèta maerantha Mussini	14		ı	Britain					3	Hardy Herbaccons Plants, growing freely in
1503			ı							3	any good garden soil.
1504	violàcea	 			Persia		v.	2	7-8	3	Cond corden soil
	Nicandra physaloides	l	1	178		hhA bA	p.	3	7-9	6 3	Good garden soil.
1506 1507	Nicotiàna nàna Oronòko		!	:::	America	hA	ro.			3	Varieties of American Tobacco, fine large fo-
1508				,	•••		g.			3	liage; succeed well in any good garden
1509							r.			3	soil.
1510	virgíniea	١			T,	1. I. D	8. 1.		6 10	3	Most elegant for elumps or edgings. Sow in
	Nierembergia gracilis				Uragnay Panama	hh P	w. & b.		6-10 $ 8-10 $		heat and transplant.
1512	intermèdia Nigella damascèna	13	30	162		hA	pa. y. 1. b.	2	6-9	3	
1514			1		gar. var.					3	
1518			ļ					1		4	Love-in-a-mist. Hardy, compact and pretty
1516	hispánica			• • •	Spain		b. & w.	1 -	6-10		foliage, similar to the Larkspur. N. li. alba and atropurpurea are two new, distinct and
1517					gar. var.	***	d. p.			6	desirable varieties.
1518 1519					S. Europe	:::	b.	2		3	
1520		l						1		3	1
1521	Nolàna paradoxa	5	25	81	Chili			112	7-9	3	Very pretty trailing plants, after the character of the Convolvulus minor. N. p. violacea has
1522			·		gar. var.			1.		3	delicate lavender-coloured flowers with a yel
$\begin{array}{ c c c }\hline 1525\\ 1524\end{array}$				•••	Peru		b. w. y.	2		3	low centre: all are quite hardy, and will grov
1523							Ъ.			3	in any good garden soil.
1 4 . 7 - 4	Nonea rosea [stis	i			Crimea		ro.	112	6-10		Good garden soil.
1526		12	1	129	E. Indies	gS	w.	15	7 10	6 6	Extremely graceful Greenhouse plant. Most beautiful dwarf plants, covered with blos
1527	Nyctanthes arbor-tri										TATION DESIREM OF THE DESIRED COVERED WITH DIOS
1527 1528	Nycterina capensis	14	59	175	C. G. Hope	4	nlc	34	7-10		som, extremely compact, and well suited for
1527	Nycterina capensis selaginoides	14	59		С. G. Норе	hh P†	pk.	- 		6	som, extremely compact, and well suited for rockerics or edgings.

	Scientific Name.	L.C.	L.0.	N. O.	Native Country.	H. & Dur.	Col. of Fl.	Hght.	M. of Flow.	Price.	GENERAL OBSERVATIONS.
No.								fee		s. d	
-11533	l Nymphæa alba 2 dentàta [aca		l	133	Britain Guinea	hP	w.	aq	1	1 6	Water Lily: sow in loam in pans, covered with
1533	3 Obeliscaria auranti-	ji	55	98	gar. var.	sP hP†	у.	2	8-10		water, and place in warm hot-bed. Curious hardy Herbaccous Plants: grow in any
153	1 pulcherrima	1	.	١	Texas		e. & y.			4	good garden soil.
1536	6 Enothèra acaulis 6 biennis	8		146		•••	w.	4	4-9	6	
1537	— var. hirsutissima				N. America California		or.	2	6-9	3 6	
1538		ļ	.		•••	bhA		1	7-9	6	The tribe of Enotheras, or Night-bloomers.
-1539 -1546					***	ի ԻԴ		2	6-9	6	eontains many superior kinds of flowers:
1541	l concinna		1		gar. var. Florida	hhA	l. ro.	1 4	7-9	6 3	viz., O. acaulis, which has very large and beautiful silvery-white blossoms almost as
1542		ļ					y.	1		3	transparent as mother-of-pearl. O. maero-
1543 1544		<u> : : :</u>			Texas	h l' †	į.	2	7-10	3 6	carpa and taraxaeifolia have magnificent
1545	grandiflora	 	t I		N. America			tra 4	6-9	3	yellow blooms. O. Drummondi nana is an extraordinarily free bloomer, and flowers
1546		ļ	ļ		California			2		6	for four months continuously: colour a
$- 1547 \\ - 1548$					•••			1		3	rich snlphur. O. grandiflora (Lamarck)
1549			Ιi		Buenos Ayres	hВ		3	7-9	1 0	has a superb spike of bloom, and we have seen some with upwards of 400 buds and
1550		 			N. America	bP		i	6-7	6	blossoms upon them: it is certainly one of
1551 $ 1552$		ļ		•••	California	hA	•••		5-9	6	the showiest yellow flowers grown. O.
1553					S. America	hP†		3 2	4-8	6 3	bistorta Veitehi is a pretty edging plant, and may be grown in rockeries. Sow the per-
1554	ròsea vel eoceínea		j		Peru Peru	hhP	ro.	ĩ	5-8	3	ennial varieties on slight hot-bed and
1555 1556		ļ			Monte Video		y.	1 1/2	7-9	3	transplant to borders in May: annual kinds
1557				•••	Mexico	hhA		·;·	6-8	3 6	may be sown in the open borders: good
1558	- lutea	•••			Chili Peru	hP†	w. y.	1/2	5-8	6	deep sandy loam suits all.
1559					Mexico	hA	w.	1	6-8	3	
1560	undulàta Olea sylvestris			;;;	America	hР	у.	2	•••	3	
1562		2		145	S. Europe	gS	w.	10	1	6	Olive: grow in sandy soil.
1563	Onobry'ehis petræa	17	15	132	•••	hP		2		6	Good garden soil.
$1564 \\ 1565$	Onònis pubescens				Spain	hΑ	v.	1/2		3	Free-growing Annuals.
	viseòsa Oròbus eoccíncus	•••			S. Europe N. America	 L.D.1	у, & р.	1	7-8 4-5	3	
1567	Osteospermum neriifolium	19	56	98	Cape G. Hope	hP† gS	s. y.	3	7-8	6	Common garden soil. Usual greenhouse treatment.
1568	Osy`ris alba	22	38	171	S. Europe		w.		6-8	6	Very dwarf, pretty, profuse-blooming plants,
1569	Oxalis floribunda — alba			147	Brazils	fPb	ro.	3	4-9	6	well adapted for covering hanks or edgings.
1571		••••			Chili	•••	w.		:::	6	O. tropæoloides bas a dark ornamental
1572					Cape G. Hope	hhA	у.	1	6-9	6	foliage, similar to the Shaurrock.
1573	Oxyùra chrysanthemoides		54	98]	California	hA		13	ļ	3	Showy hardy Annual.
1575	Ozothamnus ferrugineus Pæònia arietìna	13	$\frac{53}{25}$	162	V. D.'s Land Levant	hhS hP		1 2	4-9 5-6	6	Good garden soil.
1576	Palafoxia texàna	19	53	98	Texas	lii hhΛ	р. br. r.		6-7	3	Common garden soil.
	Paliùrus aculcàtus	5	25	164	S. Europe	hS	pa. g.	4		6	S
1579	Pánieum eolònum coneinnum	3	26	123	E. Indies	hΑ	ap.	à	6-8	6	<u> </u>
1580	Crns-Galli	•••			Britain	•••	•••	112		6	
1581	eriogònum fimbriàtum]		N. Holland			1		6	
1582 1583		•••	•••	•••	S. Europe			•••		6	Ornamental Grasses; well snited for winter
1584	itálieum	••••		:::			•••	• • •		6 6	bouquets; of very easy culture: see Agrostis.
1585	nigreseens				•••					6	
1586 1587		•••			•••			•••		6	
1588	plicătum sauguinăle	•••			•••					6 6	
1589	vertieillätum							•••	:::	6	
1590 1591		13	- 1	149	Siberia	h1'†	r.	3	5-6	3	
1591	eroeenui fanbriàtum [mum			•••	Altaia gar. var.	• • •	0.	$\frac{1}{2}$	5-7	3	
1593	involueratum maxi-				gar. var.		r.		:::	3	These perennial Poppics are very ornamental.
1594							var.			4	P. pulcherrimm and orientale are the best.
1595 1596	— splendens nudicaule		ı		 Silvania	•••		11		4	Sow thinly where the plants are to remain, and cover with a pot until well up.
1597	outout 11-		- 1		Siberia Levant	hP	y. r.	13 3	6-8 5-6	3	l l l l l l l l l l l l l l l l l l l
1598	pilòsum	- 1		- 1	Russia		0.	2	3-0	3	
1599	pulcherrimum Paspàlum élegans			139	Siberia		r.	3		4	
1601				123 150	Brazils C. G. Hope	lıhΛ hS	ар. b.	$\frac{1\frac{1}{2}}{30}$	7-8 6-10	3 6	Ornamental Crass.
1602	cdhlis**				W. Indies	gS	W.		7-8	6	Passion-flower. These flowers are admirable
$\frac{1603}{1604}$	fœtida**			- 1			w. & g.	10	7-9	6	ornaments to the Conservatory, Greenhouse, or Hothouse.
1004	grácilis**	•••	•••			gA	w.	6	8-9	1 0	J

Scientific Name.	L. C.	L.0.	N.O.	Native Country.	H. & Dur.	Col. of Fl.	Hght.	M. of Flow.	Price.	GENERAL OBSERVATIONS.
No.	_						fcet		s. d.	0.1
605 Patersònia longiscapa			128	N. S. Wales	gP	b.	$\frac{1\frac{1}{2}}{20}$	5-7 4-5	6	Good garden soil.
606 Paulownia imperialis			175	Japan E Indias	hT	w. & p.	2	'k- J	6	Noble hardy Tree. Sow on heat in hothouse.
1607 Pavònia hastàta [brids 1608 Pelargonium, choice hy-	10	40	114	E. Indies hybrid	sS gS	r. div.	3	6-9	1 0	Choice Geraniums. Sow in light soil in ho
1609 Fancy varieties					5~				1 0	bed, and harden off by degrees. P. Odio
1610 Odier's var., spotted								•••	1 0	has a distinct scarlet blotch on each petal
611 zonale (scarlet)					hlıS	s.	2	4-10]
612 Pennisètum itálicum	1	1 1	123	S. Europe	hΛ	ap.	•••	6-8	3	Orman antal Grasses
613 longisty'lum			····	•••	•••	•••	•••	•••	3	Ornamental Grasses.
614 villòsum		4.5	83	 India	gP	s.		7-8	6	Usual greenhouse treatment.
615 Pentapètes phœnicea 616 Pentstèmon Adamsòni			175	gar. var.	hP	ro.	3		6	
617 confertus				5			ا ا		6	These Herbaceous plants are very handsom
618 cordifòlius	1			California		s.		6-10		and descreedly rising in repute as bedding
619 digitàlis [des)				Arkausas		w.	12	7-9	3	plants, their long tubular flowers being ve
1620 Hartwègi (gentianoi-				Mexico	•••	div.		7-10	6	ornamental. P. Murrayanus is the mobrilliant of all. P. Hartwegi and its vari
621 — eoecíneus				gar. var.	•••	S.	i	8-9	6	ties, and P. pulchellus and its varietie
622 hirshtus		ı .		N. America Ohio	•••	l. p. p.w.&y		7-8	6	are the freest-blooming kinds, and can
623 Mackayànus 624 Murrayanus			•••	S. Felipe		s.	3	7-10		strongly recommended. Many of these w
625 nítidus			1	Texas		p.w.&y	1	6 - 10		bloom early in the antumn out of doors,
626 ovatus	1			N. America		Ъ.	4	6-8	6	sowu early in March in a hot-bed a
627 — albus		•••		gar. var.		w.	.;.		6	planted out in May. Sown in a border April, they should receive a little protecti
628 procèrns		٠،٠		N. America		p.		8-9	6	during the first winter; and it would
629 pulchellus				Mexico		div.	11	i	6	better to have glass over such varieties
630 roseus		ļ	••••	gar. var.		ro.			6	Hartwegi, &c.
1631 — violaceus 1632 — Wrighti						d. ro.		:::	6)
633 Perilla nankinensis		58	130	China	hΛ	p. leaf	3	6-8	3	Rich dark bronze ornamental foliage: good
634 ocymoides	l			India		w.	2		3	
635 Petunia argentea	5	25	178	S. America	hhP	sil.	{ ····	7-10		Petunias, from their richness of colour, du
1636 nyetaginiflòra	1			•••		w.) ···		3	tion in bloom, and fragrance, are admiral bedding plants, and contrast effectively wi
637 phænieca		· ···		Buenos Ayres	• • • •	p.			3	Scarlet Geraniums, Verbenas, &c. &c.
1638 — grandiflòra		ļ	1	gar. var.		w.		:::	6	
1639 — — alba 1640 — — atroviolàcea				•••		d. v.			6	from the finest flowers. All the kin
1641 — kermesina	1	ļ		•••		c.			6	
1642 — — purpurea						p.			6	
1643 — — ròsea	 					ro.			6	
1644 — — striàta	 		•••	•••		stri.		•••	6	
1645 — green-edged				•••		gr. bor.	\		6	
1646 splendid, mixed 1647 Phacèlia congesta			0.1	S. Europe	hA	div.			3	15
1648 conspicua				California				6-9	3	don soil where it is intended they shou
1649 tanacetifòlia	1					0.			3	bloom
1650 — alba				gar. var.		w.			3	↓ J
1651 Phalacræa cœlestina			98	W. Indies.	hhA	,	1	6-8	6	
1652 Phálaris paradoxa**			123		lıA.	ap.	11	8-0	1 0	13
1653 Phasèolus Caraealla**	1 1	1	132		g₽ hhA	li.	5	7-9		I Hallisonic Chimnets with Change and Issue
1654 coccincus nòvus** 1655 humifùsns**			••••	gar. var.		3.	1		1 0	
1656 Phlòmis Russelliànus		158	130	Levant	hP	br.	3	6-9		
1657 Phlox Drummondi,2	5	25	154	Texas	hhΛ	div.	1		6	
1658 — alba [vars				gar. var.		W.			6	
1659 — atrococcinea		.			•••	d. s.			6 6	
1660 — atropurpurea				•••	•••	d. p.		:::	6	
1661 — coccinea	1		1	•••	• • • •	e. & w.	. :::		6	
1662 — Leopoldiana 1663 — Magenta		· ···		•••	•••	e.	1		6	in black type may be specially reco
1664 — marmorata		: :::	1	•••		mar.			6	mended for producing the greatest effe
1665 — Napoleon III.			1			d. e.			6	
1666 — oculata alba						w. & e	1		6	
1667 — purpurea	- 1	.				p. & w	1		1 0	
1668 — Radowitzki			· ···		***	stri.			6	
1669 — rosea Victoria Regina			4			ro.	:::		6	
1670 Victoria Regina 1671 zinnabarina						р. v.		1	6	
1672 decussata, finest				N. America	hP	d. p.	1 1		1 0	winter.
1673 French percanial var.				hybrids		div.	3		1 0	
1674 Phormium tenax	(. 74	N. Zealand	gP	g. & w.		8-9		
1675 Phygelius capensis			175		hP	c. & y.		6-10		
1676 Phylica plumbsa			164		gS	w.	8	$\begin{vmatrix} 3-5 \\ 5-6 \end{vmatrix}$		11
1677 Phillyrea augustifòlia	1	1	145		hS	•••	15	1	3	
1678 latifòlia	1	٠!٠٠				•••	110	•••	"	1,

	Scientific Name.	٤	3 0	0	Native	₹ .	1 4 5	1 2	, e	:	çe.	
_		_ =	1	z	Country.	H. &	of Fi	Hoht	M. of		Price.	GENERAL OBSERVATIONS.
16	79 Phy'salis peruviàna		. 9	179	S. America	gP		fe			. d.	
1168	O Pinus execlsa	2	1 4	99	Nepanl	hT	w.	10		0	6	Usual greenhouse treatment.
168			.		Himalayas			50			6	Fine ornamental hardy Conifers. Sow in
168			:		Europe Himalayas			1::			6	pans and boxes under protection, placing
168	Webbiana				Nepaul			10 90			6 6	the seeds an inch apart: keep under protection the first winter.
168	5 Pinca 6 Piptathèrum Thomàsi	ŀ.,			Britain] ;;;		50			3	J could the first writter.
168	7 Pistàcia Lentisens			$123 \\ 179$		ին հեղ					6	Ornamental Grass.
1168	8 Pittospòrum undulàtum	5	25	152	N. S. Wales	gS	w. & y				6	Sow in heat and transplant.
168	9 viridiflòrum [nicu 0 Platystemon califor	sl						1			6	Usual greenhouse treatment.
+169	l Pleroma elegans			138		hhA sS	y.	1 4	7-9 6-9		6	Extremely pretty Annual; good for rockeries. Superb plant
1165	2 Plumièria acuminàta	15	1	69	E. Indies		r. & y				6	Usual stove culture.
169	3 Poa brizopyroides 4 Podaly'ria sericea	10	$\frac{20}{25}$	$\frac{123}{132}$		hA gS	ap.	1	6-9			Ornamental Grass.
1169	5 styracifòlia		.		C. G. Hope	go	P. pk.	6	1-10 5-6		6	Usual greenhouse treatment.
$ 169 \\ 169$	6 Podolepis affinis			98	N. Holland	lıbA					6	{
169					•••		•••			ŀ	6	B. H. J. M. J.
169	9 grácilis				N. S. Wales	:::	nk.	3	7-9		$\frac{3}{3}$	Pretty half-hardy Annuals: sow in slight hot- bed and transplant.
170 170					•••		w.		1.		3	oo and manspallt.
	rugàta 2 Poinciana Gilliesi	10	25	132	S. America	hhS		10	6.7	Ι,	3	J Magniferent of the last
1170	3 regia.	. . .		ł l	Madagascar	sT	e.	20			0	Magnificent plants: sow in hot-bed, and grow in loam and peat.
170	1 Polemõnium eærideum — album			154	Britain	hP	b.	1	6-8		3	Pretty hardy Perennials, P. exeruleum is known
170	6 villòsum	:::			Siberia		w. b.	1::	6-10		3 3	as the Jacob's Ladder of gardene Grow in
170	7 Polycolymna Stuarti	19	54	98	Australia	bhA	y. & w.	1 1 2	7-9			any good garden soil. Everlasting Flower.
170	Poly'gala at(ennata bracteolàta	17	43	155	Cape G. Hope		p.	6	5-8		6)
171					•••	•••	•••	3			6	
171					•••		•••	6	5-10		6	
171: 171:		••			•••	•••	•••	4			6	Showy Greenhouse Shrubs: sow in mild hot-
171	grandis				•••	•••	v.		•••		6	bed and grow in fibry peat mixed with a
171.	macrophy'lla				•••		٠				6	little loam.
1710			•••	•••	•••	•••	р.	3	4-5		6	
1713	3 speciòsa			:::			•••	•••	•••		6	
1719	Pomaderris apétala			164	N. Holland		ра. у.	7	5-6			Usual greenhouse treatment.
172	Pontedèria cordàta Portulàca aurea			158 159	N. America	hP bhA		2	6-8		6 4	Aquatic.
1722	aurea striata nova				S. America gar. var.		o. o. & e.	1 2	6-9		$\frac{4}{6}$	Portulações que vermentante de 1 du
1723	grandiflòra				Chili		у. & р.				4	Portulaeas are remarkable for brillianey and richness of colour, and are adapted for
172					Mendoza gar. var.	•••	c.	•••	•••		4	Deds, chimps, edgings, nots, vases or roak
1720	- Blensoni				gar. var.		w. ver.	•••			6	WORK. P. anrea striata and Blensoni are the
$\frac{1727}{1728}$							stri.	•••		١,	6	newest and handsomest varieties. Sow in sandy peat, leaf-mould, and burnt earth;
1729	— lìtea				•••		s.	•••	•••		4	prick off and plant in rows in the middle of
$\frac{1730}{1721}$	— ròsen				•••		y. ro.	•••			4	June, placing an inch or two of lime-rub- bish, burnt earth, and sand over the border,
$\frac{1731}{1732}$						•••	l. ro.	•••	· · · ·		4	to prevent the plants from damping of
1733	— Thorburni	l					stri.		•••		1	These plants require searcely any water.
$\frac{1734}{1735}$	7				Chili		о.р.& 1.			4	1	
1736		12			Alμs	hP	gold		5-7		3	
1737	atropurphrea				gar. var.		 р.	$\frac{\cdot \cdot \cdot}{2}$			3	These are very handsome Herbaccous Plants,
1 7 38 1 7 39	atrosanguinea	·		•••	Nepaul		e.	11		÷	3	and from their hardiness and shown also
1740					hybrid		у.	2	7-8	6		racter are exceedingly useful and orna- mental: they may be employed to advan-
1741	macrantha frea	. 1.	1	9	Switzerland		w.	13	5-6	(tage in filling iii vacant nooks and compare.
1742 1743	maculatasulphu- — plèna		•••		hybrid			2	6-8	€	; 📙	CYCH In Single plants, and in all situations 1
1744	Mackayàna				•••	,	 . &pk.	::: ! ½	•••	6		their neatness of foliage and long duration in bloom render them objects of desire.
1745 1746	MacNabiàna	.					- 1		7-9	- 6		The dwarf varieties will be found useful to 1
1746 1747	Menziesi	•••					s.	3	8-9	6		rockeries. Some of the host binds and
1748					NT. 1 1		у.		6-9	6		printed in black type. Sow in a well-mixed horder, and transplant in the au-
1749	Planti	.	.		E. Indies					6		tumn or the following spring.
1750 1751	puicherrima		∤.		hybrid		1	••••		6	Ш	
		195	3	8				3	 7-8	- 3 - 6		ood garden soil.
		-		!_			1		-01		Jui	Son Baracht soll.

Scientisic Name.	L. Cl.	L.U.	N. 0.	Native Country.	H. & Dur.	Col. of Fl.	Hght.	M. of Flow.	Price.	GENERAL OBSERVATIONS.
No. 1753 Prímula cortusoides	2	25	160	Siberia	hP†	r.	feet l	5-7	s. d.	Fringed Chinese Primrose. Sow under glass
1754 sinensis, choice fringed		•••	•••	seedlings	gA	div.	•••	10-2	$\begin{array}{ccc} 1 & 0 \\ 2 & 6 \end{array}$	in heat; grow in sandy loam and very sweet leaf-mould: keep in shady but not damp
1755 — dark carmine		• • •		•••	• • • •	d. ear.	• • •		2 6	place, and near the glass in winter in green-
1756 — rose 1757 — white				•••		w.			2 6	house.
1758 vnlgåris (Primrose)				Britain	hP.	div.	2	3-4 7-8	6	Common field Primrose. Usual greenhouse treatment.
1759 Prostanthèra nivea			130 161	N. S. Wales E. Indies	gS	p. div.	ے div.	div.	6	Magnificent Evergreen Greenhouse Shrubs.
1760 Pròtea, fine mixed 1761 Prunella grandiflòra	114	158	130	Austria	hP+	l. b.	$\frac{1}{2}$ 12	7-9	6	Good garden soit.
1762 Prunus Lauro-ceràsus	12	25	166	Levaut	hS	w.	12	4-5	3	Sood garden son.
1763 Psídium Cattleyanum	13		181	G G 11-11-	gS	ъ.	4	6-7	6	
1764 Psoràlea aculeàta 1765 aphy'lla		43	132	C. G. Hope	gs		2	·	6	Omenantal Grandhause Shruha Samin slight
1766 capitàta					•••	р.		7-8	6	Ornamental Greenhouse Shrubs. Sow in slight hot-bed in April, pot off, and grow in fibry
1767 pinnàta] ···	•••	•••	ь.	6	5-7	6	peat and loam in a cool shady place.
1768 spicata 1769 strobolina				•••		b.	6	5-7	6	1)
1770 Ptarmica grandiflòra	l	1		•••	gP				6	Usual greenhouse treatment.
1771 Pultenæa daplinoides	10	25	132	N. S. Wales	gS hS	у.	$\frac{2}{18}$	6-7 6-9	6	P. nannm forms a charming little bush, covered
1772 Pùnica Granàtum 1773 — nanum	l	l	142	S. Europe	113	s	2		6	with scarlet blossoms.
1774 Pyrèthrum carneum	19	54	98	•••	hP	flsh.			3	Feverfeu: very ornamental Perennials; con-
1775 Parthènium fl. pl.	 			Britain		W.	•••	•••	1 0	trasting well with searlet Geraniums, &c.
1776 finest French vars.	17	45	 132	seedlings C. G. 11ope	gP	div.	3	6-7	6	Sow on heat.
1778 Ranneulus, mixed	hi	35	162	Levant	hPb	div.	3	5-6	6	Requires a deep, rich soil.
1779 Resèda erecta			163	S. Europe	hA	buff.	$\frac{1}{2}$	6-9 6-8	3	N. to a line of Missessette
1780 myriophýlla	1			Italy S. Europe	hP hA	st.	11	6-9	3	Various kinds of Mignonette.
1781 Phyteuma 1782 Rhamuus Alaternus	5	25	164	S. Europe	hS	g.	20	4-6	3	Ordinary garden soil.
1783 Rhodanthe Manglesii	19	54	98	Swan River		ro. & y.	1	5-11		Handsome Everlasting Flower.
1784 Rhododendron arborcum	110	25	165	Nepaul	hhT	s. w.	20	5-6	1 0	These remarkably handsome Shrubs are to be
1785 — album 1786 — campanulàtum				•••	hhS	p.	4	4-5	1 0	met with at nearly all Floral Exhibitions, of
1787 maximum	 			gar. var.					1 0	
1788 ponticum	 			hadanida	hS	div.	•••	5-7	1 0	
1789 finest hybrids 1790 Ricinus africanus	21	49	112	hybrids Africa	hhA	g.	15	7-8	4	1.)
1791 — albus				•••		w.			4	
1792 brasiliensis				gar. var.	•••	r.	•••		6 4	
1793 lencoearpus 1794 lividus				C. G. flope		 р.	8		4	These rapid-growing plants are highly orna-
1795 macrocarpus				•••		s.			6	mental for large gardens, and for back-
1796 Obermanni				gar. var.		g. e.	7	:::	$\begin{vmatrix} 4\\4 \end{vmatrix}$	
1797 puníceus 1798 purpureus		<u> </u>		•••		р.			-1	and various-coloured fruit render them
1799 — major				•••					6	striking and desirable. Sow on heat and
1800 sanguinens		···		•••		r.			4	
1801 — minor 1802 spectábilis				•••		g.			4	
1803 tunicensis				•••					4 6	
1804 undulatus			•••	•••	•••	g.			4	
1805 viridis 1806 Rivea bona nox	5	25	100	W. Indics		w.	lio	7-10	3	Pretty Climber.
1807 Romeria hybrida		" ا	"		1		1		6	
1808 Rubingia parviflòra			0.0	Lonisiana	1. 4	.,	,,	7-9	6 3	
1809 Rudbeckia amplexicaulis 1810 bicolor	$ ^{19}$	135	98	Louisiana	hA 	y.	3		6	
1811 fulgida				N. America	hP				6	in April.
1812 laciniàta				•••			6		6 6	
1813 Neumanni 1814 Ruseus aeuleatus	93	19	74	England	hS	g.	1	6-12	6	
1815 racemòsus									6	
1816 Ruta bracteòsa			168		hP		3	6-9 7-9		
1817 Sabbatia campestris 1818 Sagalgina trilobàta	5		118	Texas	lah A	ro. y.	2	''	6	
1819 Salpiglossis, choice mix	. 14	55	178	gar. var.	hh2	div.	2	7-9		
1820 Barclayana				Chili		r.		• • • • • • • • • • • • • • • • • • • •	6 6	
1821 — atrococcinea 1822 — atropurpurea	1.			gar. var.		d. s.			4	to have a rich velvety softness seldom seen
1823 — atropurpurea 1823 — azùrea					1	b.	:::		4	
1824 — — pieta									6 4	
1825 — coceínea 1826 — — splendens		1				s.			6	
1826 — splendens	1				1	1				1

,		-			11110 00.0	OAR	DEREN		VADE	-WI E	COM FOR 1862.
	Scientific Name.]. [].	L. 0.	N.0	Native Country.	H. &	Col.	Hght.	M. of	Price.	GENERAL OBSERVATIONS.
No.		-						fee	t	s.d.	
1827	Salpiglossis sulphirea	14	59	176	gar. var.	hh/	y.	2	7-9		
1828	nana atropurpu-						p.			6	
1829		a	. ···			• • • •	b	1		6	
1830				•••			s.		•••	6	
1831		1	1	:::	4 1.	1:::	у.	1	•••	6	16
	Salsòla austràlis			94	Australia	lhA				3	
1834	Salvia amabilis		1	130	1 1	hP	r.	2	5-8	6	
1835				•••	Crete	1.1.1	w.	3	5-7	6	
1836					C. G. Hope Barbary	իհք հP		$\frac{1}{2}$	6-7	6	
1837			•••	•••	S. America	hhA			6-10	6	pacta is the finest Salvia grown, being lite
1838				•••	gar. var.			ï	1	6	rally covered with blossom. S. coccinea and
1839								2		6	its varieties are very free bloomers, and their universal appearance in nearly every gar
1840					•••					6	den proves their merits. S. pateus is the
1841					•••					6	brightest and purest of all blue-flowered plants
1842					• • •			l		6	and holds a pre-eminent position among bed-
1843					Europe	hB	w.	4	7-8	6	ding plants. S. Rœmeriana has a neat erim-
1844							r.			3	son blossom, though of a much dwnrfer habit
1845	-				Mexico	hhB	b.	2	7-9	1 0	than the varieties previously recommended
1846		,			•••	hhA	c.	3	6-9	4	Half-hardy varieties, such as coccinea and
1847		1		• • •	•••	hhP	s.			1 0	splendens, sow on heat and transplant, and
1848	— compacta			•••	gar. vnr.	1::	1.	12		10	grow in loam and peat. S. argentea has large
$\frac{1849}{1850}$	vertieilläta Sanguisorba eanadensis	1:::	•••	185	Germany	hP	b.	2	5-6	4	silvery leaves.
1851		1	•••	185	Canada		w.	3	6-7	6	Good garden soil.
	earnea Sanvitàlia procumbens	100	54	98	Moules	15.4	r.	2	7 0	6	
1853	Saponaria calabrica		$\frac{34}{26}$		Mexieo Calabria	hΛ	у. v.	2	7-8 6-10	3	Pretty dwarf hardy Annual.
1854	— alba		1 1		gar. var.	•••	w.		1 1	6	The best and longest-blooming of all dwarf An-
1855	ròsea				U	•••	ro.	•••	1 1	1 0	nuals, producing masses of minute cross-shaped
1856	ocymoides				Levant	hP	r.	.;.	:::	6	rose-coloured blossoms: admirable for bedding. No. 1854 is a new pure white variety.
	Saxifraga, fine mixed			173	div.		3.	div.	i 1	6	A fine class of Mountain plants, admirable for
1858	vacearia				Britain		r.	1	5-7	6	rockeries.
	Schiuns Molle		45	179	Peru	hhS	g.	12	7-8	6	Produces curious white berries.
1860	Sehizanthus Grahàmi			175	Chili	hhA	r. & o.		6-8	4)
1861	Hookeri	 			•••		•••			4	
1862	retusus				•••		s. & o.			4	Those if some in a little host of the and of
1863	— albus				•••		w.			4	These, if sown in a little heat at the end of March, and planted out at the begin-
1864	gráeilis				•••	•••	р.			3	ning of May, will make fine large beds in
1865	— lilaeinus nõvus			- 1	gar. var.		li.			6	the autumn; if sown in September, potted
1866 1867	hùmilis		•••		Valparniso	ا ۰۰۰	li. & e.		6-11	3	off separately, and kept over the winter in
1868	oenlàtus grandiflòrus	•••			gar. var.	1:::1	dp.&ro.	ĺ	6-10	6	the greenhouse, they will there form fine
1869	pinnātus — obtnsifòlius		•••		Chili	hΑ	ro. p.	••••	•••	3	objects from May onwards: grow in rich
1870	— l'riesti		- 1	•••	•••	•••	 W.	•••	•••	3	sandy loam. Hardy kinds sow in the
1871	— porrigens				•••			••••	•••	3	open borders.
1872	— pulchellus				•••		var.	••••		3	
1873	- venustus				•••	,	•••	:::		3	
1874	Sehizopétalon Walkèri	15			•••		w.	1 2	5-8	3	Very pretty fragrant Annual.
1875	Schistanthe pedunculàta		25					3		3	rest, transcaute statement
1876	Selerothamnus diffusus			132	N. Holland	gS	y.	1	4-7	6	Usual greenhouse treatment.
	Seilla bifòlia				England	БРb	d. p.		2-4	6	Sow in light rich loam
	Scorzonèra tingitàna	19			Europe	hP	у.		5-6	3	Good garden soil.
	Scutellària commutata			30	llungary	•••	р.		7-9		
1880	Scyphanthuselegans	18	18	35	Chili	hhP	у.	2		6	Beautiful Loasa-like Climber.
1001	Sedum cæruleum [**				Africa	hP	b.	1	7-8	3	Stonecrop: the different varieties of Sedum
$\frac{1882}{1883}$	Jacquini					• • • •		1		3	are extremely useful for rockeries and eo-
1884 1884	kamtsehatkense maximum				Kamtschatka	•••	0.	$\frac{1}{2}$		3	vering urnamental mounds; and their neat
1885	maximum pulchrum				Spain	•••	w.	- 1		3	foliage and innumerable pink, blue, and
1886 1886	putenrum rupestre				Europe	•••	•••	-;:-		3	yellow blossoms render them objects of
	rupestre Setària maerochæta		 26 I		N. America	I. A		2 0		3	great admiration. Ornamental Grass.
1888	Sida angustifòlia	16			Brazil	$\frac{\ln \Lambda}{gP}$	ap.	$\frac{2}{1\frac{1}{2}}$	7-9	3 6)
1889	Bæriana		- 1		S. Europe		у.	- 1	- 1	6	
1890	grandiffra				- Sarope	gT		20	11-12	6	
1891	gravėolens				E. Indies	gB	v.	i	7-8	6	
1892	indica			- 1	India	sA		11		6	fine ornaments for the greenhouse or stove.
1893	pulchella				W. Indies	gP	y.	4		6	0.000
1894	pyraeantha				Brazil	gs	- ::.		6-7	6	
1895	tiliàeca				China	gA		2	7-8	6)
	Silène atroròsea	102	28	01	gar. var.		ro.			3	Catchfly. The tribe of Silene comprises many
		- 1							•••	6	
1897	Bergéri	٠٠٠ .	•••								
1897 1898	compacta		- 1		Caucasus		pk.	11	7-9	3	bright ornaments for the general flower-gar-
1897		٠	- 1					1 ½ 3 4	7-9	3 6 3	den, both in brilliancy of colour and length of duration in bloom.

	Scientific Name.	L.Cl.	L.0.	N.0.	Native Country.	H. & Dur.	Col. of Fl.	Hght.	M. of Flow.	Price.	GENERAL ORSERVATIONS.
No.	A .	_	-			1. A		fect		s. d.	,
1901	Silène nàna	10	28	91	gar. var.	hA	ro.	$\frac{1}{2}$	6~9	6	
1902	orientalis	• • •	•••		Cape G. 11 ope	hB	***	î	5-9	3	Control of
1903	ornàta	•••			Cape G. Hope		.p.	l		3	The dwarf varieties, such as S. Schafta, are
1904	— alba	•••		•••	Sicily	hΛ	r.			3	adapted for rockwork, beds, or mixed bor- ders. S.pendula isan extremely free bloomer,
$\frac{1905}{1906}$	pendula — alba	•••	1				117.			3	and can be strongly recommended as ex-
1907	pieta		1		gar. var.		r.	2	6-9	3	ccedingly effective. S. pseudo-Atocion is a
1908	procumhens		Ł		Siberia	hP	pk.	큐	6-7	6	very fine flower, admirably adapted for the
1909	pseudo-Atocion				N. Africa	h.A	•••	1 1 2 I		6	formation of beds, and contrasts well with
1910	pulchella				l		, , ,	ı		3	Nemophila insignis. All are very free grow-
1911	quinquevilluera	 			England	hP	blood.	14	6-8 5-8	$\begin{vmatrix} 3 \\ 3 \end{vmatrix}$	ing, but are more showy if earefully treated
1912	rėgia		•••	1	N. America Portugal	hΛ	e. fish.	1	5-6	3	by being sown under protection in light rich
1913	rnbella		1	٠	Tortugar		w.			3	soil and transplanted to borders in May.
$\frac{1914}{1915}$	— alba Sehafta	٠			Russia	hP	r. & p.		6-10	3	
1916	squamigera		1				у.	1		3	[<i>]</i>
	Silphinm commutatum	19	55	98	N. America		•••	6	7–10] , , ,
	Smilax aspera	22	40	177	S. Europe	•••	w. & g.	8	8-9	6	Good garden soil.
1919	mauritánica					հիր	····			6	ĺį
	Solanum atropurpireum	1		178		gS	d.r.	3	6-9	6	
1921	auriculātum		•••		Madagascar	•••	v.	4	7-8	6	
1922	Balbisi		•••	1	S. America	•••	w.	•••	6-7	6	•••
1923	betaceum		••••		Brazil		рк. 	3		6	These plants may be considered as Half-hardy
1924	cabilieuse argenteum		• • • •		S. America		w.	ĭ	7-9	6	and are particularly ornamental in their
$\frac{1925}{1926}$	Capsicastrum citrullifòlium				o. Milerien			4		6	fruit, which varies from the size of a Spanish
1927	gigånteum			1	Cape G. Hope	gT	v.	15	6-7	6	Nut to a Tomato. S. jasminoides is a very clegant Climber for greenhouse decoration
1928	heterogànum				S. America		w.	2		6	S. Capsicastrum is also a very interesting
1929	Hystrix		ļ	1	•••				1	6	ornamental plant for the decoration of the
1930	índicum		· · · ·		India		р.	6	7-8	6	greenhouse or conservatory, and resembles
1931	Jacquini				E. Indies	gA.		$\begin{vmatrix} 2 \\ 8 \end{vmatrix}$	9-11	6	a miniature Orange Tree. Sow in sandy
1932	jasminoides**				S. America	gS	pa. b.	3	8-12 7-8	6	Heam and peat in hot-bed, and grow after-
1933	laciniatum			• • • •	N. Holland		v. w.	4	6-9	6	wards in good garden soil wherever it may
1934	pseudo-Capsicum				Madeira Madagascar		r.		8-9	6	be desirable.
1935 1936	pyracanthum sodomènm			• • • •	Africa	:::	v.	3	6-7	6	
1937	species nova				gar. var.			١		6	
1938	texàuum			`	Texas	hhA	li.	2	6-10	6	
1939	vescum					gS	ր.	 		6	[]
	Sollya heterophýlla**			152	N. Holland		b.	5	. 7-8	6	Sow on a little heat, and grow in loam and peat
1911	salicifòlia**					:::		1 :::		6	
	Sophòra japónica			132		hT	W.	40	8-9 7-8	6	Mixture of loam and peat.
	Sorghum bicolor	23	ĮθΙ	123	l'ersia	hA	ap.	3	1	3	Ornamental Grass.
1944		12	15	132	S. Europe	hS	y.	6	7-9	6	\(\)
	Spartium jouceum linifòlium	17	3.7	1	Spain		'	ď	1-6	6	Good garden soil.
1946	Spergula pilifera	16	30	91	Corsica	hP	w.	1.8	6-8	6	Admirable substitutes for Grass; see p. 118.
1948				1	•••					6	1.1
	Splienógyne speciòsa			98		hA	pa. y.	1	7-8	3	Very showy Annual.
	Spiraca augustifèlia	12	27	166	;	hS	ro.	3		6	The state Shouldharing a come in order
1951	callòsa		.		! China			-1		6	Fine ornaments for Shrubberies: sow in cold pit in April, and protect at first; grow in
1952			.	·	\., ···· .		-:-		•••	6	pit in April, and protect at hist, grown
1953					N. America	1	pk.	8		6	good, deep, loamy soil.
1954					E. ludies	hhS	211	1.	7-9	6	Sow on heat.
	Sporóbolus tenacíssimus			132		hhA	ap.	3	7-10		Beautiful Amaranthus-like flower.
	Spraguea umbellata			64 130			s.	3	6-8	1.	Culture similar to that for Salvia.
	Stáchys eoccinca Státice bellidifólia			15		lıP	1. b.			6	These Herbaceous Plants are very beautiful, and
1959		L				hbPi	y.	1 1		4	are worthy of more extensive cultivation
1960					Europe	hP	pk.		5-10		than has hitherto been bestowed upon them
1961			,		China	hhP			7-10	6	S. Bonduelli has fine masses of yellow blos
1962					Sicily		w.		5-9		som. S. Halfordi is a beautifully compact
1963	Halfordi				gar. var.	gS	b.	2	7-9		plant, with large leaves and fine heads o blue flowers; good for conservatory of
1964				•	Egypt	hbP			6-8		greenhouse decoration. S. incana is a
1965					Siberia	hP	b.		5-7		charming plant forming a mass of bloom
1966					S. Europe		pk.		4-8	3	the shape of the entire plant resembling ar
1967				· ···	gar. var. S. Europe		•••			6	inverted basin. Sow all the varieties in a
$1968 \\ 1969$				• •••	r	hhP†	l. o. y.		5-9		eold pit, and keep shaded until the plants
1970		4			Paula		b. & ro			6	appear; grow in well-drained pots, in a
1971					93			\		6	mixture of fibry sandy loam, peat, broker
197:										6	sandstone, &c. &c.
	Stenactis bellidifòlia			3, 98			p.	2	7-10		Common garden soil.
19/										3	

Scientific Name.	L.Cl.	L. 0.	N. O.	Native Country.	H. & Dur.	Col. of Fil.	Hght.	M. of Flow.	Price.	GENERAL OBSERVATIONS.
No.			02	G1 :			feet		s. d.	C
1975 Stereùlia platanifòlia	19	$\frac{37}{53}$	98	China Mexico	gS hP	fish.	30 11	6-7 7-9	3	Sow on heat. Good garden soil.
1976 Stèvia serràta 1977 Stìpa eapillàta	3	26	123	Europe	hP+	ap.	2	7-8	3	Ornamental Grasses. S. pennata is the well-
1978 juncea				France	٠				3	known Feather Grass: all the varieties are
1979 pennata	1	١		Britain		•••			3	graecful.
1980 Streptocarpus Rexi	2	25	106	Cape G. Hope		b.	2	1-12		Sow on heat.
1981 Styrax officinalis	10	ı	193	ltaly	hS	w.	12	7-8	3	Garden soil.
1982 Sutherlandia fruteseens	17			Cape G. 11ope		s.	3	6-7	6	Fine Shrubs, similar to Clianthus, and may be
1983 austràlis, new			•••		•••	•••	2	7-9	1 0	similarly treated.
1984 Swainsonia alba				N. S. Wales	•••	w.			6	These Shrubs are highly ornamental, both in
1985 alba violacea 1986 G reyana				gar. var. N. S. Wales		v. p. & w.		7-8	6	foliage and blossom. Steep the seeds in
1986 Greyana 1987 lessertiæfolia	- 1			N. Holland		р. се п.		6-8	6	water at 125° for six hours; then sow or
1988 Osborni	- 1			•••		r. & y.		8-10	6	gentle heat, and harden off for greenhouse
1989 — grandiflora				•••	•••	•••			6	eouservatory, or south wall in garden.
1990 rosea	1::		•••	N. S. Wales	•••	ro.		7-9	6)
1991 Tagèlia bituminèsa		25		E. Indies	11.0	y.	3	7 10	6	
1992 Tagètes lùcida	- 1		98	S. America	lıhP lıhA	0.	2	7-10 8-9	3	Sow in heat, and transplant to borders in April
1993 signàta				Peru		у.	i		3	Sow in neat, and transplant to borders in right
1994 tenuifòlia 1995 Tecòma stans		5.59	79	America	gS	•••	12	7-9	6	Usual greenhouse treatment.
1996 Telèkia eordifòlia			98	Hungary	ĥΡ		4	6-8	6	1
1997 Telèphium Imperàtii			159		•••	w.	4		6	Good garden soil.
1998 Templetònia glauca	17	45	132		gS	ro.	3	4-5	6	Rare and fine : same culture as for Swainsonia
1999 retùsa			•••			r.	2	3-6	6	l J
2000 Tenerium flàyum			130		gľ			7-9	6	Sow in paus, and transplant.
2001 Thália dealbàta			88	S. Carolina	hP	ь.	4 15	0	6	Aquatic.
2002 Thuja articulàta			99	Barbary	hhT	ap.	6	2-5 5-6	6	These are very handsome Trees, and are or
2003 Bermudiàna 2004 Biòta compacta		•		Bermuda Japan	•••	•••	5	$\frac{3-6}{2-5}$	6	namental from their earliest growth; the
2004 Biòta compacta 2005 — aurea									1 0	are in general hardy, and in a soil made o
2005 — aurea 2006 — hy'brida				S. Enrope			10		6	loam and peat flourish luxuriantly: the
2007 — intermèdia				Japan	,		15		6	may he grown as pot plants to ornamen
2008 — orientalis				China			25	5-6	6	conservatories or balconies; in the gene
2009 — — aurea	•••		•••		•••	•••	3		1 0	ral garden also they are very attractive
2010 — plieàta				NootkaSonnd		•••	20	• • • •	6	We can cordially recommend all the varie-
2011 — pyramidālis		• • • •		ltaly	•••	•••	15	•••	6	ties to the admirers of compact evergreer Shrubs.
2012 — strieta		····		China Tartary		•••	10	2-3	6	Siritios.
2013 — tartarica 2014 nepalensis		:::		Nepanl	hT		20		6	1)
2015 Thunbergia alàta**			63	E. Indies		bff.& d.	4	5-9	4	
2016 — alba**	١			gar. var.		w. & d.			4	Extremely ornamental Climbers, much ad
2017 — americàna**		.]		·		buff	•••		4	mired, very free bloomers. Sow in strong
2018 — aurantiaca**			•••	•••	• • • •	0.		•••	4	hot-bed in April, after moistening the seed
2019 — Bakèri**				•••	•••	w.		•••	4	pot first into sandy loam and peat, after wards use a good portion of poor lime
2020 — flava** 2021 — Frièri**	- 1			•••		y. w.			4	rubbish, which will cause masses of bloom
2021 — Frièri** 2022 — intus candida**	- 1			•••					4	to be thrown up. Good for trellis, stems of
2023 — mesoleuca**				:::		0. & y.			4	trees, &c., in a greenhouse, or out of door
2024 — sulphurea**		.]				sul.			4	in summer in a warm situatiou: wate
2025fragrans**				E. Indies		W			1 0	freely.
2026 lamiifòlia**	1::	: :-:	98			•••		7 10	1 0	Links wish soil
2027 Tithònia tagetiflora	113	155	98	Vera Cruz	hhPb	0.	$\frac{1}{2}$	7-10	1 4	Light rich soil. Splendid Stove Shrub.
2028 Tournefortia heliotropioid	cs o	23	97		sS hB†	pa. li. b.		7-9		
2029 Trachèlium ewrùleum 2030 — album		1	87	Italy		w.			3	
2031 Tricholæna ròsea [brin	a. 3	26	123	S. Europe	liA.	ap.		7-8		17
2032 Trichosanthes colu	1-2	149	104	E. Indies	hhA	w.	4	6-9		
2033 Trifolium arvense			132		hΛ	ap.	1		6	
2034 atropurpureum				Italy	.,.	p.			3	
2035 aurantiacum					•••	у.			3	Novelties ware 114.
2036 pannónicum [de	S			llungary	1.11	w. & y.		6-7	3 6	
2037 Tripsacum dactylo	1-2	1 3€ ∷ o⊤	123	Virginia	hP	ap.	2	8-9	1 0	1/
2038 Tritoma Uvar ia 2039 Tropæolum Jarratti**			182	Cape G. Hope Santiago	gPb		12	7-9	1	1
2040 Lobbianum**				Columbia	hhA	0. & s			4	vearly rising in repute, are very beautifu
2041 — Caroline Schmidt				gar. var.		s.			4	The brilliance of the Lobbianum varieties
2042 — Lilli Schmidt**		1					٠	·	4	renders them invaluable adjuncts to the
2043 — Brilliant**				•••		d. s.			6	
2044 — Schultzi**	ļ.,				•••	•••		• • • •	6	
2015 — Cavour**						o. spot			1 0	
2046 — Comte de Morny					•••	stri.	•••		$\begin{vmatrix} 1 & 0 \\ 1 & 0 \end{vmatrix}$	
2047 — Garibaldi**					•••	s. spot		1	1 0	
2048 — Géant d. Batailles	· T .		• • • •	•••	•••	ear.		1	1. 0	, near, with a rich, open som

	Scienlific Name.	L.C.	L.O.	N. O.	Native Country.	H.&	Col.	Hght.	M. of	Dirigo	rice.	GENERAL OBSERVATIONS.
No.	(Eugenie**	-1-	-	Z	Country.		00	fee		8.0	_	T. peregrinum, or Canary-bird Creeper, must no
	Tropæolum Lobh., Imp.	18	25	182	gar. vår.	hh/		6				be crowded with other plants, otherwise it wil
2050	— Monsieur Colmet**						y.&car		1	1		not succeed well. T. minus and varieties are
$ 2051 \\ 2052$							ver.str.		1	1 -	0	good for edgings. T. Brilliant and Schultz have rich scarlet flowers, with dark foliage
2053							car.&y				ŏ	the contrast being strikingly effective. T.
2054	- Queen Victoria**		•••				stri.		1	1		Cayour, fine brilliant red, bordered with yel
$\frac{2055}{2056}$		1	۸.	•••	•••	 ···	blk.			1		low. T. Impératrice Engénic, finely formed
2057		1		•••	Cumana	gPb	y. & r.		7-8		$\frac{6}{0}$	fine clear red, spotted and striped with yellow T. pentaphyllum makes an elegant out-door
2058					Bucnos Ayres		r.g.&p.	4	7-9		6	climber, with trefoil foliage and handsome
2059	speciòsum**	ļ			Chiloc	hhP†	s.	$\frac{10}{12}$			0	bloom. For general observations on the descrip-
$2060 \\ 2061$	trícolor** majus, new bronze**			:::	Valparaiso gar. var.	ցթե հռ	s. & p.	10		1	U 6	tion and cultivation see page 33. The varieties under T. majus are better known as improved
2062	- Scheuermanniànum**		1 1		,		spot.			1 :	3	varieties of the tall Nasturtion. T. Scheuerman-
2063	— carneum**			- 1			var.	-;-			6	nianum is of a very fine cream-colour with
2064 2065	minus — coccíncum	••			Pern gar. var.	•••	0. & y.	2	•••		3 6	erimson blotches. T. carnenm is delicately flamed; and the new bronze variety is a most
2066	peregrinum**				Peru	 hhA	p. y.	10			6	eurious plant.
2067	Tuckermannia speciòsa	19	54	98		hA		2			3	Good garden soil.
	Twecdia cærùlea** Unìola latifòlia	2	26	$175 \\ 123$	Buenos Ayres Brazil		b.	3	7-10 6-7		6	Pretty Climber. Ornamental Grass.
2070	Unona lævigata [ceum	13	35	68	E. Indies	gS	pk. w.	5	0-/		5	Greenhouse treatment.
2071	Venidium calendula-	19	56	98	Cape G. Hope	hhA	s.	1	7-8	:	3	Fine bedding plant.
2072 2073				187	N. America	•••	pk.		7-9		5	
2074			- 1		Bnenos Ayres Chili	gS	b. l. p.	3	5-7	1		The Verbena is deservedly n universal favou-
2075	Drummondi		- 1		Texas	ĥΡ	li.	11	7-8	3	3	rite; the seed of the mixed varieties No. 2082
2076					Buenos Ayres			:;:			3	is saved only from the finest flowers. Treat
2077 2078					hybrid	հեր 	v. s.	1 	6-9 6-10		3	as tender Annuals: sow in sandy loam and leaf-mould in March; give bottom heat to
2079			- 1			···	w.		6-9	è		prevent damping, and prick off into border
2080					Buenos Ayres		ro.	2	5-9			in May, in good rich soil.
2081 2082	véronicæfòlia finest mixed [sis				Mexico hybrids	hA hltP	b. div.	i i	7-8 6-10	1 6		
2083	Vernonia noveboracen-	19	53	98	N. America	hP	p.	6	9-11		- 1	Fine ornamental-flowering Shrub.
2084	Verónica amethystina	2	59	175	S. Europe		b.	4	7~9	1 6	;	
2085 2086				:::		•••				6		••• ••• •••
2087										6		
2088					England	•••	b.	1		6		A very ornamental race of Herbaceons Plants,
2089 2090	4 44.44	•••	- 1		•••	•••	•••	•••	•••	6		elegant in foliage, graceful in habit, and
2091			- 1		Siberia	•••	b.	2	6-8	3		cheerful in bloom, and look well when
2092	latifòlia				Austria	• • • •	w. & b.	1	5-6	6		planted singly: several of the varieties we now offer are seldom to be obtained in
2093 2094	. 11 .			:::	N. Zealand	հհԻ հԻ	w.	3	•••	6 6		seed. V. syriaca, if sown early, forms an
2095	44									G		extremely pretty edging for small beds. All
2096	spicàta		- 1		England	•••	ь.	1	7-9	3		borders; but V. syriaca is best raised on a
$\frac{2097}{2098}$	— alba syriaca		- 1		Symia	hA	w. b. & w.	$\frac{\dots}{\frac{1}{4}}$	•••	- 3 - 6		little heat and then transplanted.
2099	11			:::	Syria 	1174	w.	4		6		
2100	variegàta	- 1	- 1			hΡ				6		
$\frac{2101}{2102}$	Verschaffelti violàcca purphrea		•••			•••	<u>,</u>	2		6 6		
	Vesicaria polyantha	15	60	103	Enrope		y.	1	4-6	6		1
2104	Viburnum Tinns	5	28	90	S. Europe	hS	w.	.1	3-12	3	:	Good garden soil.
				$\frac{132}{144}$	Britain Amazon	hP	w. & b. ro. & w.	6	7-8	$\begin{array}{c} 3 \\ 2 \end{array}$] The grandest known Aquatie.
				132	N. Holland	sA gS	ro. www.	aq. 3	6-9	2 0 6	- 1)
2108	denudàta						• • •			6	;	Curious Greenhouse plants: light soil.
$\frac{2109}{2110}$	Vinca ròsea — alba	9	•••		E. Indies	•••	r. & w.	1	1-10	4		Compact and handsome plants: sow on heat, and transplant to borders in summer.
	Vìola odoràta			188	Britain	hΡ	w. p.	1	3-5	$\frac{4}{6}$		Sow in pans, and prick out into pots.
2112	Viscària cœli-ròsa		30		Levant	hA ,	ro.	1 1	7-9	3	- 1	A genus of very pretty, profuse-blooming
2113	— alba	•••			gar. var.	•••	W.	• • •		3		plants, adapted for growing either in beds.
2114 2115	— nàna oculàta				Algiers		ro. pk. & r.	2 2	7-10	3 3		edgings, or clumps. Sow in good garden
2116	— Dunnetti	- 1			gar. var.		W.			6		soil. V. Dunnetti and oculata nana are
2117			- 1		• •••		pk.	2 2		6		strongly recommended by the Royal Hor- ticultural Society.
$\frac{2118}{2119}$	— new scarlet Vitex Agnus-castus	4	 59 1	87	Sicily	hhS	s. w. & b.		9-10	6 3	- 11 /	Sow on heat, and transplant.
2120			14		Australia	hA	li.		6-10	3		1
2121	cuncàta .									3	T	Anstralian Daisy: sow on open borders.
2122	Westringia grandislòra	14) I	30	N. S. Walcs	nhS			•••	- 6	1	ight rich soil.

Scientific Name.	L.C.	L. 0.	N. O.	Native Country.	H. & Dur.	Col. of Fl.	Hght.	M. of Flow.	Price.	GENERAL OBSERVATIONS.
No. 2123 Westringia longifòlia [a 2124 Whitlavia grandifiot 2125 Yucca gloriosa 2126 aloitòlia 2127 pinnatífida 2128 Zamia caffra 2139 Zamschuèria califórnica 2130 Zemena glauca 2131 Zinnia élegans, mixed 2132 — alba 2133 — aurantiaca 2134 — coceínca 2135 — màjor 2136 — flàva 2137 — kermesina 2138 — miniàta 2139 — purpùrea 2140 — ròsca 2141 — sulphùrea 2142 choicest double	21 8 11 8 11 8	48 25 35 48 25	91 123 105 146 98 	Cape G. Hope	hA hhS	ro.& w. v. w. & g. ap. s.	1 8 3	8-9 6-10 8-9 6-10 6-9 	3 1 0 1 0 1 0 1 0	Sow in light rich soil. One of the best of the Hardy Annuals. Magnificent Aloe-like plants. Sow on heat in light rich soil and transplant. Very curious: usual greenhouse treatment. Fine scarlet Salvia-like plant. Usual greenhouse treatment. The Zinnia is one of the most brilliant of Annuals, and has long been a general favourite. No. 2142, "mixed double varieties" are immense improvements on the single, and are perhaps the finest introductions for many years. The seed we offer has been saved from our original Indian importation, and is gathered from the best double flowers only. Sow in mild hot-bed in April, pot off into an airy situation, and transplant to inch borders in May.

FLOWERS HAVING POPULAR NAMES.

Under this healing we have specified the various flowers under the names by which they are generally known, to which we have also affixed the Scientifie Names, to show the genus to which they belong; and as most of the kinds are of such a nature as will with ordinary care succeed in almost any soil or situation, the remarks on culture, soil, &c., will necessarily be brief.

	Popular Name.	L.CI	0.1	N. O.	Native Country.	H. & Dur.	Col. of Fl.	Hght.	M. of Flow.	Price.	Scientific Name.	Culture, Soil, &c.
No.								feet		s.d.		
	Aster, Bouquet	19	- 1	98	gar. var.	hhA	div.	2	7-10		Aster chinensis ramòsus)
144	Chinese, mixed		•••]		China			•••		3	ehinensis, pl. var.	
145	Cockade, mixed		•••		gar. var.					1 0	— corònis oculàtus	
146	dwarf					1		1 2		6	— nànus	
147	Emperor, giant					/	р.	2		1-0	— imperiàlis giganteus	
148	German, quilled, m.						div.			6	- fistulòsus, pt. var.	
149	Globe, mixed									- 6	- globulàris, pl. var.	
150	La Superbe						ro.			1.0	- superbus	For culture, soils, &c
151	Peony-flowered		[1	div.			1.0	- pæoniæftorus, pl. v.	see page 3.
152	Perfection, mix.									1.0	— incomparábilis	
153	Porcupine, carm.						car.			i ŏ	— spicātus miniātus	
154	— rose						ro.			iŏ	— ròseus	
155	pyramidal				•••		div.	•••	•••	6	— pyramidàlis, pt. var.	
156	Raminculus-flow'd.		•••		•••			•••		6	— pyramiautis, pt. var. — ranuneulæftorus	
2157	very dwarf				•••		•••	ï		6		1
	Anricula, fine Alpine	5	2.	160.	C		• • •				- nanissimus, pl. var.	4
159	finest prize	3			Switzerland	hP	p.	2	5-7	6	Primula Auricula, pl.var.	Sow on gentle heat.
		• • •			gar. var.	fP	div.			2 6	Auricula eximia	J com on Bonero mente
	Balsam, finest double	•••	- 1	1	É. Indies	tA.	•••	2	6-9	6	Balsámina hortensis fl.pl.	
2161	Camellia, mixed		• • •	• • •	gar. var.		• • •			6	hortensis Camelliæftora	
2162	dwarf, mixed	• • •		• • • •	•••		• • • •	1	•••	6	— nàna, pl. var.	For culture, soil, &c
2163	Rose-flowered, m.	•••			•••			2		6	— rosæflora, pl. var.	see page 5.
2164	— Isabel		• • •		•••		ro.			- 6	— — Isabel	
2165	— orange	• • •			•••		or.			6	— — aurantiacu)
	Belvedere (Cypress)			94	Britain	hA	ap.	11		3	Kochia scopària	Common garden soil.
	Canary Creeper	8	25°	182	Peru	hhA	y.	1ŏ	6 - 10	6	Tropwolum peregrinum	0
2168	Candytuft, fragrant	15	66	103	Crete	hA	w.	1	5-8	3	Ibèris odorata)
2169	purple				S. Europe		p.			3	umbellàta	
2170	new crimson				gar. var.		c.			3	- kermesina	Among the showiest
2171	Rocket		- 1		S. Europe		w.			3	— eoronària	} llardy Annuals: so
2172	rose		- 1		gar. var.		ro.			3	— ròsea	in good garden soil.
2173	white	1			England		w.	1		3	amàra	
	Canterbury Bell, pur.	5	25		Germany	hP†		21		3	Campánula Mèdium	<
2175	white		٠.,				р.	1 -	•••	3	Mèdium alba	
2176			•••		gar. var.		W.	•••		3	— flore plèno cærùlea	Same treatment as Can
2177	— lilae	• • •	•••	•••	•••		ь.					ranula:
2178	— white	•••	•••		•••	1	li.	•••		3	— — tilacina	
			• • •	1.50	, ··:		w.			3	—— alba	2 .
21/9	Capsicum, mixed			178	India	-hhA		2		6	Capsicum annuum, pl. v.	Sow on heat.
	Carnation, double		26_{1}	91	England	hP	div.			1 0	Dianthus Caryophy'llus	For culture see Dias
2181	choicest double]		gar. var.		•••			2 6	Caryophy'llus eximius	thus.
2182	— perpetual		اا					l	3-10	2 6	- semperflorens	l tilus.

	Popular Name.	5	1.0	N. 0.	Native Country.	H. & Dur.	Col. of Fl.	Hght.	M. of Flow.	Diigo	rice.	Scientific Name.		Culture, Soil, &c.
No		- -	-	-	-	-	-	fee	_				- -	
	3 Catehfly, red	10	0 28	91	England	hΛ	r.	1	6-9	8.6	a. 3	Silène Armèria rùbra	1	1
218	4 new pink				1 0		pk.			١.	3	ròsea		Common garden soil.
218		ا: ::ا	::::				w.	•••			3	alba [tun	n .	
218	6 Chrysanthemum trico- 7 tricolor, Burridge's	- 13	9 54	1 98		•••	y.br.w.		•••		3	Chrysanthemum carina-	İ	
218	8 — improved	1::			0		e. ce w.				6	carinàtum Burridgi — — melior		
218					ľ		w. & c.				3	- venustum		Very showy Annuals;
219					Barbary		у.	<u>:::</u>			3	— flàvum	ı	grow in any good gar- den soil.
219 219			· ···		•		w.	$2\frac{1}{2}$	•••		3	— atbum plenum	ĺ	uch son.
219			· ···				y. w.	:::			$\frac{3}{3}$	— flavum plenum — fistul∂sum album	1	
	4 Clary, purple	10	25	130		:::	p.	i	:::		3	Salvia Horminum pur.	1	
219.	5 red				, -	j	r.				3	rùbra		Sow in good garden soil.
219		٠ <u></u>	• •••			1::	w.	•••			3	alba)
219	7 Cockscomb, dwarf er. 8 Columbine, double			162		tΛ hP†	е.	2	6-8	4	4 3	Celòsia cristàta nàna Aquilègiu fl. vulgàris pl.		low in hot-bed.
219	9 Convolvulus major, m.					hhA		10	7-10			Ipomæa purpùrea, pl.var	1	Garden soil.
220	major, splendid, m.				gar. var.						U	purpùrea exímia	1	••• •••
220		ļ					b.		•••		4	— cærùlea		For the culture of these
$\begin{vmatrix} 220 \\ 220 \end{vmatrix}$	•	•••	, ,				c.				4	- kermesina		beautiful flowers see
220	d stuined			•••		:::	ro. stri.		•••		4	— ròsea — striàta		half-hardy varieties of
220	5 — violet						v.	:::		4	4	— violùcea		Ipomæa.
2200	6 — white	•••		•••			w.				4	— alba	IJ	•••
2203 2203				•••	S. Europe	hA.	ь.	1	6–10		3	Convolvulus tricolor	h	
220	1 1			•••	gar. var.	•••	d. p. b.			4		trícolor atropurpùreus — grandiflòrus		•••
2210							stri.	•••	•••	3		— granagtorus — striàtus	П	Extremely showy; grow
2211	l — white [strosus						w.			3		- albus	П	well in any good gar-
2212	- tricolor mon-	•••		•••			b.	•••		1 0		- monstròsus	Н	den soil.
2213 2214		•••		•••	•••		lav.	•••	•••	$-\frac{6}{6}$		— subcærùleus	П	
2213						:::	w. d. v.	•••		Č		— albus plenus — élegans	IJ	
2210	Cowslip, fine mixed				Britain	hP†	div.	3.	5-8	3		Prímula elàtior, pl. var.	ĺć	ommon soil.
2217	Cyanus, fine mixed		55			hA		13	6-9	3	5	Centaurea Cyànus, pl.var.	17	
$ 2218 \\ 2219$		•••		•••	•••	•••	d. ր.	•••		1		Cyùnus atropurpùrea	П	Showy Annuals; grow in
2220	1 1.1 .	•••		•••	***	•••	ro. li. b.	•••	•••	3		— ròsea nòva — cærùlea nòva	1 ?	any garden soil.
2221	- striped			•••	***	:::	stri.			3		— striàta nòva	Н	, ,
2222		5	25	178	Arabia	hhA	p. fr.	2		3		Solànum ovígerum	ś	ow in heat and plant
2223					;;	[;; .]	w.fr.		···	3		ovigerum album		out.
			54 35		div. S. Enrope	hP†	div. c.	•••	7-8 7-9	$\frac{6}{3}$. 1	Helichrysum, sp. et var. Addnis æstivalis		ec Helichrysum.
			25		Britain		b. & y.	 3 4		3	v I	Myosòtis palustris		ood garden soil. cc Myosotis.
2227	Foxglove, finest mixed	14	59	175	Europe		div.	$\ddot{3}$	7-8	3	3	Digitàlis, pl. sp. et var.		e Digitalis.
			25	168	S. Europc	hP	r.		6-8	3		Dictamnus Fraxinetla	l	Common garden soil.
2229	white [red] French Honcysuckle,	17	45		Italy	ը::: hP+	w.	2	6-9	$\frac{3}{3}$		Fruxinella alba	ĺĺ	Common garden som.
2231	white		40	102	italy	"	s. w.			$\check{3}$		Hedysàrum coronàrium coronàrium album	}	Common garden soil.
	Geranium, finest m.	16	42	119		gS	div.	3		1 0		Pelargònium hýbridum	lί	C D-1
2233	mixed scarlets .				Cape G. Hope		s.			6		zonàle, pl. var.	了	See Pelargonium.
2234	Globe Amaranthus, p. flesh-coloured				India	gΛ		21	7-9	- 3 - 3		Gomphrèna globòsa purp.		Sam and 1 and 1 and 1
2236	0707040	- 1		- 1	Mexico		fish. or.	:::	•••	3		globòsa carnea — aurantìaca	l	Sow on hot-bed, prick off, and grow in pots
2237	variegated .				India		var.			3		— variegāta	1	in rich sandy loam.
2238	white .	- 1	57	- 1			w.			3		— alba		
2239	Globe Thistle Gourd, Bottle, 2 var.	(#)	57	98	Austria	hP fA	l. b.	5	6-9	$\frac{3}{6}$. 17	Echinops sphærocéphalus	Ç	ommon soil.
2240	Hercule's Club		19 1		India 		w.	trai	7-9	- 6		Cucúrbita Layenària Layenària clàva Hercùlis	1	
2242	new miniature .				Java		у.			6		— vittàta	ļ	See Cucurbita.
2243	orange-shaped .		- 1		Chili					6		auranlìaca		
2244	pear-shaped .					::	 A!	·;·		6	- 1	pyriformis	J	, ,
2246	Groundsel, American lawkweed, red		54 : 53 :		Cape G. Hope Italy	hA	div.	1		$\frac{6}{3}$	J .	Senècio élegans, pl. var. Crèpis rùbra	Se	e Jacobica.
2247	white .				···		w.		:::	3		rùbra alba		Showy Annuals; grow in
2248	yellow .	- 1			France		у.			3	12	l'olpis barbàta	ì	any good garden soil.
2249	silvery				12	1.174	sil.			3		barbàta argentea	J	
2250	Heartscase, extra-fine	a	25 1	00	Britain	hP†	div.	-	5-10	0 0	- 1	Viola tricotor hy'brida var. galticæ novæ	Lij	ght rich soil.
	Hollyhock, Chinese, c. 1	6	18 1	37	China	hA	с.	2	7-9	3	- 1	var. ganicæ novæ Uhæa chinensis, kerm.)	
2253	new prize, mixed .				gar. var.	hP	div.	6	6-9 1			ròsea nòva exímia	}	Good garden soil.
2254	Honesty, pur. & white I	5 (50 1	03			. & w.		5-7	3				mmon soil.
2256			27 l		Greece Cape G. Hope	1. A	w. div.		7-8 7-9	3 5	11.	Mesembry, crystallinum Senècio élegans, pl. var.	Go	od soil.
	1	1,	1		- Trope		411.		,-3	0	10	cocco cayans, pr. var.	_	

	Populur Name.	L. Cl.	L.0.	N. O.	Native Country.	H. & Dur.	Col. of Fi.	Hght.	M. of Flow.	Price.	Scientific Name.	Culture, Soil, &c.
No. 2257	Jacobæa, dble erimson	10	54	98	oran stan	hΛ	c,	feet l	7-9	s.d.	Sandaia (Jana)	
2258	— purple	13	34		gar. var.		р.			3	Senècio élegans kerm.	Sow in slight hat had
2259	— red			•••	Cape G. Hope	•••	r.	•••	•••	3	— parpùreum — rùbrum	Sow in slight hot-bed and transplant in May,
2260	— rose				gar. var.		ro.	•••		3	- ròseum	or sow in open bor-
2261	- violet		t ł		•••		v.			3	- violnceum	ders in April.
2262	— white						w.			3	- album	j
	Jacob's Ladder, blue			154	Britain	hP	ь.		6-8	3	Polemonium cærùleum	Common garden soil.
	Larkspur, dwarf, m.	13	28	162		hA:	div.	•••	7-9	3	Delphínium Ajùcis hùmile	
2265	dwarf German, m.	• • •		•••	gar. var.	•••	•••	•••	•••	6	Ajàcis Germánicum	Handsome hardy An-
2266 2267	tall Stock-fld. dwarf do.		···	•••	•••	•••	•••	•••	•••	6	— malhiolæflora	hunals; grow in any
2268	Hyacinth-fld.,mix'd			•••	Europe	***	•••	•••		6 6	— — nana	good garden soil.
2269	Pyramidal, mixed			•••	gar. var.			iį.		6	— hyacintholdes clàtius pyramidàle	L. tricolor elegans is
2270	German, branch., m.				England		•••	2		6	Consólida, pl. var.	the finest Larkspur
2271	tricolor elegans				hybrid		3-col.			6	tricolor élegans	grown.
2272	Lavatera, red	16	48	137	S. Europe		r.	3	7-8	3	Lavatèru trimestris	Common garden soil.
2273	white			•••			w.		•••	3	trimestris alba]]
	Love Grass	3	26	123			ap.	•••	•••	3	Eragrostis élegans	See Agrostis.
2275 2276	Love-lies-bleeding,red	21	40	64	E. Indies	•••	r.	2	•••	3	Amarnulhus caudùtus	Common garden soil.
	white Lupines, Dutch blue	1	15	199	D	•••	w. b.	•••	7 0	3	caudatus albus	8
2278	large blue				Buenos Ayres			•••	7-9	3	Lupinus canaliculàtus	
2279	— rose			•••	S. Europe	***	ro.	•••	•••	3	hirsùlus pilòsus	
2280	— white	 	ιı		•••	•••	w.	•••		3	— albus	Grow in any good gar-
2281	small blue						b.	11		3	angustifolius	den soil.
2282	white				Levant		w.	- 2		3	albus	
2283	yellow	ļ			Sicily		у.			3	lùleas)
2284	Marigold, French, m.	19	54	98	Mexico	hhA	div.		7-10	6	Tagètes pátula, pt. var.	1
2285	French, dwarf	ļ		• • • •	gar. var.		d. b.	1		6	pálula nàna	
2286	- new orange			•••	•••		0.	11/2		6	- aurantinea nova	
$\frac{2287}{2288}$	 superb striped 	ı			•••		stri. br.	.;.	•••	6	— striùta superba	The greatest care has
$\frac{2289}{2289}$	— miniature		•••		•••	•••	stri.	12	•••	6	- nanissima	been bestowed upon
2290	— — new striped — — new yellow		•••	•••	•••	•••	y.	•••	•••	6	striàla nòva	our Marigolds, and the seed is saved only
2291	African, mixed				Mexico	:::	div.	2		6	— — flàva nòvu erecta, pl. var.	from the finest double
2292	- lemon					:::	lem.	۱. <u>.</u> .		6	- citrina	flowers. Sow on heat
2293	- orange	(о.			ŭ	— auranlìaca	and transplant.
2294	Cape				Cape G. Hope		w. & p.	•••		6	Caléndula pluviàlis	li
2295	hybrid	ı					w.		7-8	6	hy'brida	11
2296	superb garden			•••	S. Europe		0.			6	officinàlis superba	1/
2297	Marvel of Pern, m.	•		143	India	hhPb	div.	•••	6-9	3	Mirábilis Jálapn, pl. var.	()
$\frac{2298}{2299}$	gold-striped				•••	•••	stri.	•••		3	Júlupa aurea striàta	There 2 2
$\frac{2299}{2300}$	red	•••		•••	•••		r. stri.	•••	•••	3	— rùbra	These densely-foliaged
2301	— striped searlet		1 1	•••		•••	S. S.	•••	•••	3	— rùbra striùta — coccinea	and profuse-blooming Perennials flower the
2302	silver-striped	•••			•••		stri.	•••		3	— argenlea striàla	first year: sow in hot-
2303	white		1				w.	•••		3	— alba	bed or in open borders
2304	yellow						y.			3	— flàva	in May,
2305	sweet-scented			•••	Mexico		w.			3	longiflora	1
2306	- purple						ր.			3	— purpùrea	[]
2307	Mignonette, oz. 6d.	11	28	163		hA	buff	1	7-9	3	Resèda odoràta	Common garden soil.
2308	new, large, oz. 1s.				gar. var.		•••	11	•••	3	odoràta yrandiflora) "
2310	Musk-Plant			175		hhP†	у.	3	•••	3		Good soil.
2311	Nasturtions, tall	1		182	f .	hA	o. ear.	6	•••	3	Tropæolum mājus	
2312	tall earmine — crimson			•••	gar. var.	:::	ear.	•••		3	màjus miniàtum — kermesìnum	Admirable for trellises
2313	- orange, new					:	0.	•••		3	— auranliacum	and garden walls.
2314	dwarf			ı	Pern	:::	s.	i		3	— nànum	}
2315			1 1		gar. var.					3	— — coccineum	The Town Thomb varie
2316	Tom Thumb	1						4		6	— — Cartèri	The Tom Thumb varie-
2317		 					spot.			6	— — Beauly	very beantiful, and
2318				 			c.	•••		6	— — kermesinum	make very showy bed-
2319		ļ				•••	spot.	•••		6	— — punclàlum	ding plants.
2320	— yellow				B 1.	1	y. 1		ļ, l	6	— — flàvum)
9339	Palma Christi			112	E. Indies	hhA	buff b	6	7-8	3		Light rich soil.
2323	Pea, Lord Anson's Lord Anson's white			132	Cape Horn	hA	b. w.	•••	•••	3 6	Láthyrus mngellánicus magellánicus ulbus	Grow freely in good gar-
2324		1			Barbary		s.	4	•••	3	tingilànus	den soil.
2325	- striped				Daibary		stri.		•••	3	— striàlus	40 00
	Pea. Sweet, lb. 3s.				divers		div.		5-10		Lúthyrus odorùlus, pl. v.	These pretty flowers may
2327	blaek	411			Sieily	:::	blk.			3	odoràlus nìger	be grown either in
2020	blue-edged				hybrid		b. & pk.			6	— cærùl. mnrginàlus	pots or borders, and
2328							0			3	talua	I I admit of boing forced
2328 2329 2330	Painted Lady				Ceylon Sicily	•••	ro. &w. p.	•••	• • •	3	— piclus — purpùreus	admit of being forced well.

	Popular Name.	L.Cl.	1.0.	N. 0.	Native Country.	H. & Dur.	Col. of Fl.	Hght.	M. of Flow.	Price.	Scientific Name.	Culture, Soil, &c.
No.	1							feet		s. d.		
2331	Pea, purple-striped	17	45	132	Sicily -	hA	stri.	6	5-10	1	Láthyrus purp. striàtus	These pretty flowers may
$\begin{array}{c} 2332 \\ 2333 \end{array}$	searlet — striped				Ceylon		s. stri.	•••	•••	3	— coccineus	be grown either in pots
2334	white				•••		w.	:::		3 3	— — striàtus — albas	or borders, and admit of
2335	Persicaria, red	8		156	E. Indies	:::	r.	4		3	Polygonum orientàle	being forced well.
2336	white						w.			3	orientàle album	Common garden soil.
2337	Picotee, double	10	26	91	England	hP	div.	2		1 0	Dianthus Caryophyllus	Rom oulture See and
2338	finest double Pink, double Garden	···		• • • •	gar. var.			ï	•••	2 6	Caryophyllus punct.	For culture, &c., see
2340	Polyanthus, extra fine	5	25	160	Europe Britain	•••		1 1	5-7	10	moschatus fl. pl.	
2341	new large vellow	ļ			Dittain.		y.			i ö	Prímula elàtior polyantha — flàva nòva maxima	Rich garden soil.
2342	Poppy, double mixed	13		149	England	hA	div.	2	7-8	3	Papaver somniferum fl.pl.	1 1
2313	double searlet	•••		•••	•••	•••	S.			3	somniferum coccineum	
$\frac{2344}{2345}$	- striped - white			•••	***		stri.	•••	•••	3	- striùlam	Well-known showy An-
2346	- new Peony	:::	1		***		w. div.		• • •	3	— album	nuals; grow freely
2347	- new Ranunculus				•••					3	— pæoniæflòrum — ranunealiflòrum	in any good garden
2348	- dwarf French		ļ		•••			1		3	Rhæas	son.
2349	—— searlet	٠ <u>.</u> .	• • •		•••		s.			3	— eoccineum	1)
2350	Primrose, Chin., fring.	3) -21	40	160	China	gP†	div.		10-7	1 0	Prímula sinensis fimbriàta	Šee Primula.
$\frac{2351}{2352}$	Prince's Feather, large common	- 1	τυ.	04	Nepaul Virginia	hA.	р.	$\frac{3}{2}$	7-8	3	Amaranthus speciosus	Common garden soil.
	Quaking Grass, large	3	26	123	Virginia Europe		ap.	1		3	hypochondriacus Briza maxima	J Surden soll.
2354	slender		l	ا ا	England	 .			· :::	3	gráeilis	Good garden soil.
2355		15	61	103	Europe	hP†	p.	11	6–9	3	Hésperis matronàlis	K
2356	sweet		20		_:-:	•••	w.			3	tristis	Good garden soil.
2358	Rose Campion, red white and rose		30	91	Italy	•••	r.	2	6-8	3	Lyehnis coronària	Common garden soil.
	Scabious, dark purple		25	107	gar. var. E. Indies	•••	w.& ro. d. p.		6-9	3	coronària albo-ròsea	Common gattlen son.
2360	new dwarf				ii. Indica	lιĀ	div.	i		3	Scabiòsa atropurpùrea nàna nòva	llandsome showy plants:
2361	new scarlet	•••			***	hP†	s.	2		6	eoecínca nòva	sow on heat and trans-
2362	finest German, m.						div.			6	exímia, pl. var.	plant.
	Sensitive Plant Snowdrop	23 6	$\frac{51}{25}$	132	Brazil	gS	pk.	•;•		6	Mimòsa pudica	Sow on heat.
	Stock, German, ex. fine			103	Britain S. Europe	hPb hhA	w. div.	$\frac{1}{2}$	1-3 6-9	6	Galanthus nivàlis	Light soil.
2366	German, erimson				gar. var.		c.	,		10	Mathìola annua densiflòra unnua kermesìna	}
2367	- dwf. Bouquet				84111411					6	— nàna ramòsa	
2368	— dark blue	•••		••• {	•••		d. b.			4	— atrocærùlea	
2369 2370	— rose — searlet	• • •	•••	•••	•••		ro.		•••	4	— ròsea	
2371	- seariet				•••	•••	8. W.	••••	•••	4	— coeeinca	
2372	large-flowered				•••		div.			6	— alba — grandiflòra, pl. v.	1
2373	Wallflower-lvd., m.				England					6	- ehcirifòlia (græea)	
2374	intermediate	•••			gar. var.	•••		1}	8-10	6	— intermèdia, pl. vur.	
$2375 \\ 2376$	— searlet	•••	l····l		•••		s.	• • • •	•••	6	— coecínea	
2377	— purple— Covent Gard.	•••			***		p. s.	•••	•••	6	— — purpùrea	
2378	white	• • • •			•••	:::	w.			$\begin{array}{ccc} 1 & 0 \\ 1 & 0 \end{array}$	— — formòsa — — alba	For general observations.
2379	uew miniature, nı.				•••		div.	1 2	6-9	6	— pygmæa nòva, pl. v.	on the culture of the
2380	— searlet	•••			•••		s.			6	— eoeeínea	Stock, see page 4.
$2381 \\ 2382$	Ten-week giant se.			•••		hΛ		2		6	— ramòsa gigántea	li
2383	— giant purple — common mixed	•••	···		S. Europe		p.	;;;	•••	6	— — gigan. purpùrcu	****
2384	— purple				gar. var.	:::	div. p.	14		3	- pl. var.]
2385	— — searlet	•••			gai. vai.	:::	s.			3	— — purpùrea — — coceínea	*** *** ***
2386					•••		w.			3	— alba	
2387	Brompton, mixed	•••			England	hB	div.	3	5-7	6	simplieieaulis, pl. var.	
$2388 \\ 2389$	— purple — searlet	• • •	•••		•••	•••	p.	•••	***	- 3	— purpùrea	
2390	- white		•••		•••		s. W.	•••	•••	$\frac{3}{6}$	— coccinea	
2391	hybrid perpetnal, m.		•••		hybrid	•••	div.	11		. 4	— alba semperflorens hy'brida	1
2392	Imperial, mixed				·	hhP				6	imperiàlis, pl. var.	
2393	— erimson			[gar. var.	:::	e.	ļ		6	- kcrmesina)
$2394 \\ 2395$	Sunflower, dwarf double tall	- 1	55	- 1	e America	hA	у.	3		3	Helianthus annuns	\
2396	Californian	•••			S. America California	•••	•••	6	7-9	$\frac{3}{3}$	annuus, fl. pl.	Showy Annuals. The
2397	Lorriothon				gar. var.		•••	10		- 5 6	— gigánteus — monstròsus	seeds good for Bees.
2398	new orange			[0.	6		6	— auruntiacus novus	3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
2399	Texan				Texas	•••				G	— Texanus)
				103	England		w.	4	7-10	3	Alyssum maritimum	Good garden soil.
2401			35 55	166	Britain	lıS IıA	pk.		5-7	3	Ròsa rubiginòsa	Ditto.
0400	white		ეე 		Persia	hA 	p. w.	2	7-8	3	Centaurea moschàta moschàta atba	Very showy Annuals, sow
2403												

Popular Name.	H.& Dur.	Col. of Fl.	Hght.	M. of Flow.	Price	Scienlific Name.	Cullure, Soi	l, &c.
No.			feet		s.d.			
405 Venus's Lookglass,b. 5 25 87 S. Europe	hA	b.	1 2	6-8	3	Campánula Spéculum	Profuse-bloom	
106 blush 407 white	•••	ro.		•••	3	Spéculum carnea	huals; grov	
107 white		w.	:::	:::	3	— alba Cynoglossum linifòlium	garden soil. Garden soil.	1
109 Virginian Stock, red 15 61 102 S. Europe		r.			3	Maleòmia marítima)	'
110 new rose gar. var.		ro.			3	marítima ròsea	Common word	
411 — dwarf white		w.	4 1 2	•••	4	— alba nàna	Common gard	en sou.
112 white S. Europe	hP		$1\frac{2}{1}$	3-6	3	— alba Cheiranthus Cheiri	1	
113 Wallflower, blood gar. var.	""	d. r.	1 2		3	Cheiri atrosanguineus		
115 purple	1	p.			3	— purpurcus	Same culture	
116 violet		v.			3	— violàceus	BromptonSi	toek. So
117 yellow		y.	ï	•••	3 1 0	- flàvus	Ingo 4.	
418 double German, mix	hP†	div.	23	6-8	3	— flòre plèno, pl. var. Physalis Alkekengi	Common soil.	
20 Xerauthemum, purple 19 54 98	hA	p.	2	7-9	3	Xerúnthemum annuum)	
121 white		w.			3	annuum album	Everlasting Flo	owers : fe
122 — new N. Holland		•••			3	Helichrysum bractealum	culture see Hel	lichrysnr
123 yellow		у.)	3	bractcùtum [album	J	
Bartonia anrea, golden yellow	oz.	s. d. 1 0 1 0 1 0 9 0 9 0 9 1 0 2 0 2 0 0 9 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0		Nemoon no Nemee Nolan Phlox Portu Sapon Co Schizca Whitl Candy Convo	uber renus phil maeu ssia ca na at Ellaca naria ocym opet ria o avia olvul mino m Pir spur, onet	anus, blue arnosus, crimson and blue stus, blue a insignis, blue lata, white, spotted with p compacta, variegated irplicifolia, blue and yellou immondi, mixed colours alon Walkeri, white, fragr adula, crimson culata, red and rose grandiflora, purple , crimson us minor, blue r, dark purple alk, various colours dwarf German, mixed co	ourple,	s. d. 0 6 6 2 0 0 6 6 1 0 6 6 0 6
densiflorus, purple ,,, densiflorus ablus, white ,, lutcus, sulphur-coloured ,, Linaria bipartita, delicately variegated ,, Linmanthes grandiflora, yellow und white ,, Lobelia gracilis, blue ,, gracilis alba, white ,,		1 0 2 0 1 6 0 9 2 6 2 6		Pea, S Sweet Venus	Swee t Aly s's L	large t, mixed coloursper li ssum, white ooking-glass, blue Stock, red	b. 2s. 6d. ,,	1 0 0 3 1 6 1 0 0 6
densiflorus albus, white, lutcus, sulphur-coloured, Linaria bipartita, delicately variegated, Linmanthes grandiflora, yellow und white, Lobelia gracilis, blue, gracilis alba, white, Carter's Scarlet Tom Thumb No	astur	2 0 1 6 0 9 2 6 2 6 tion .		Pea, S Sweet Venus Virgir	Swee t Aly s's L nian	large t, mixed coloursper li ssum, white ooking-glass, blue Stock, red	b. 2s. 6d. ,,	0 3 1 6 1 0 0 6
densiflorus albus, white, lutcus, sulphur-coloured, Linaria bipartita, delicately variegated, Linnanthes grandiflora, yellow und white, Lobelia gracilis, blue, gracilis alba, white, Carter's Scarlet Tom Thumb Now Dwarf Spotted Nasturtion	astur	2 0 1 6 0 9 2 6 2 6 tion		Pea, S Sweet Venus Virgir	Swee t Aly s's L nian	large t, mixed coloursper li ssum, white ooking-glass, blue Stock, red	b. 2s. 6d. ,,	0 3 1 6 1 0 0 6
densiflorus albus, white, lutcus, sulphur-coloured, Linaria bipartita, delicately variegated, Linmanthes grandifora, yellow und white, Lobelia gracilis, blue, gracilis alba, white, Carter's Scarlet Tom Thumb Now Dwarf Spotted Nasturtion True Crimson Linum grandiflor	astur	2 0 1 6 0 9 2 6 2 6 tion		Pca, S Sweet Venus Virgir	Swee t Aly s's L nian	large t, mixed coloursper li ssum, white ooking-glass, blue Stock, red	b. 2s. 6d. ", ", ", ", ", ", ", ", ", ", ", ", ",	0 3 1 6 1 0 6
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densiflorus albus, white	astur rum . folia	2 0 1 6 0 9 2 6 2 6 tion) BE	Pea, S Sweet Venus Virgin	t Alys's L hian hian hian hian hian hian hian hian	large t, mixed colours per li ssum, white ooking-glass, blue Stock, red Fonze IN IN LARGE QUA	per oz. 2s. 6d , 1s. 6d , 3s. 0d , 2s. 0d	0 3 1 6 1 0 0 6
densiflorus albus, white "" lutcus, sulphur-coloured "" Linaria hipartita, delicately variegated "", Linmanthes grandiflora, yellow und white "", Lobelia gracilis, blue "", gracilis alba, white "", Carter's Scarlet Tom Thumb N New Dwarf Spotted Nasturtion True Crimson Linum grandiflor Perilla nankinensis, ornamental SHOWY FLOWERS ADVIS ontirrhinum (Snapdrayon), mixed colours ""	astur rum . folia	2 0 1 6 0 9 2 6 2 6 tion age, ri	BE d. L. G N. G S. G N. G. G. R. G.	Pea, S Sweet Venus Virgin Purpl	t Alyxis's Landau	large t, mixed colours per li ssum, white ooking-glass, blue Stock, red // N IN LARGE QUA low TALL, mixed colours	per oz. 2s. 6d , 1s. 6d , 3s. 0d , 2s. 0d	0 3 1 6 1 0 0 6 1 0 6 1 0 0 6 1 0 0 6 1 0 0 6 1 0 1 0
densiflorus albus, white "" lutcus, sulphur-coloured "" Linaria hipartita, delicately variegated "", Linanathes grandiflora, yellow und white "", Lobelia gracilis, blue "", gracilis alba, white "" Carter's Scarlet Tom Thumb Now Dwarf Spotted Nasturtion True Crimson Linum grandiflor Perilla nankinensis, ornamental SHOWY FLOWERS ADVISTANCE osmidium Burridgianum, crimson bronze and yello Delphinium formosum, richest bluc and white ""	astur rum . folia	2 0 1 6 0 9 2 6 2 6 tion age, ri	BE d. L. G N. G S. G N. G. G. R. G.	Pea, S Sweet Venus Virgin Purpl	t Alys's L A	large t, mixed colours per li ssum, white ooking-glass, blue Stock, red TONIN LARGE QUI low TALL, mixed colours	per oz. 2s. 6d , 1s. 6d , 3s. 0d , 2s. 0d	0 3 1 6 1 0 0 6 1 0 6 1 0 0 6 1 0 0 6 1 0 0 0 0
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densiflorus albus, white "" lutcus, sulphur-coloured "" Linaria hipartita, delicately variegated "", Linanathes grandiflora, yellow und white "", Lobelia gracilis, blue "", gracilis alba, white "", Carter's Scarlet Tom Thumb Now Dwarf Spotted Nasturtion True Crimson Linum grandiflor Perilla nankinensis, ornamental SHOWY FLOWERS ADVISTANCE Cosmidium Burridgianum, crimson bronže and yello belphinium formosum, richest bluc and white " biantlus barbatus (Sweet William), mixed colours iropæolum peregrinum (Canary-bird Creeper) " cinnia elegans, mixed colours " cinnia ele	astur rum . folia	2 0 1 6 0 9 2 6 2 6 2 6 tion age, rices 1 1 3 1 1 1 3 3 4	BE d. L. C.	Pea, S Sweet Venus	t Alyker the Alyker th	large t, mixed colours per li ssum, white ooking-glass, blue Stock, red // N IN LARGE QUA low TALL, mixed colours black Painted Lady, rose and wi scarlet white	per oz. 2s. 6d ,, 1s. 6d ,, 3s. 0d ,, 2s. 0d	er oz. s. o
densiflorus albus, white	astur folia	2 0 1 6 0 9 2 6 2 6 tion age, riv	BE d. L. G N S O O O O S O O S O O O O S O O O O O	Pea, S Sweet Venus Virgin 2 GR upiness asturt do. do. do. do.k, 1	t Alyker to Alyk	large t, mixed colours per li ssum, white ooking-glass, blue Stock, red IN IN LARGE QUA low TALL, mixed colours black Painted Lady, rose and wi scarlet	per oz. 2s. 6d , 1s. 6d , 3s. 0d , 2s. 0d	er oz. S. O O O O O O O O O

MIXED PACKETS OF FLOWER SEEDS.

For the convenience of those of our Customers who prefer a mixed variety of colonrs in the Flower Beds, &c., we subjoin the following, each packet of which comprises the best varieties of its kind.

		Ha	rdy	7 A	nnual	ls.			
No.		8.	d.	11	No.			s.	
424 Calliopsis	er packet	0	3		2436	Lupinus, commonper	packet	0	
125 Candytuft	٠,,	0	3		2437		,,	0	
26 Clarkia clegaus	"	0	3	1	2438	Nasturtions, lall**	,,	0	
27 pulchella	"	0	3	li li	2439		"	0	
28 Collinsia		Ö	3	- 1		Nemophila	"	0	
29 Convolvulus minor	"	ŏ	3	- 8		Poppy, superb new		ő	
30 Godetia	"	ŏ	3	1	2442		"	Ö	
31 Jacobæa	,,	ŏ	6			Scabious, German	,,	ŏ	
32 Larkspur, dwarf stock-flowered	"	0	6	- 10			,,	ŏ	
	"	0	6	ш	0145	Schizanthus	"	ŏ	
	"			- 11	2443	Sweet Peas**per lb. 2s. 6d.	17		
34 branching	"	0	6			Sweet Sultan	**	0	
35 tall stock-flowered	,,	0	6	11	2447	Venus's Looking Glass	"	0	
	Ha	.1 f -1	har	dу	Annu	ials.			
48 Anagallis, splendid p	er paeket	0	6	1	2460	Lobelia, dwarfpei	· paeket	0	
49 Aster, German	,,	0	G		2461	Marigold, French, superb double	"	0	
50 Globe	"	0	6		2462		"	0	
51 new dwarf	"	0	G		-2463	Petimia, finest, large flowers	"	0	
52 — Peony-flowered	"	1	Ö			Phlox Drummondi, extra fine	,,	0	
53 — Perfection	"	ī	ŏ	1		Portulaca	11	0	
54 Brachycome		ō	3	- 1		Salpiglossis		0	
55 Convolvulus major**	"	ŏ	6	-		Stock, dwarf German	"	Ö	
56 snlendid, 20 var.**	,,	ĭ	ŏ		2468		"	ŏ	
	"	ò	6		2469	3 0	"	ŏ	
57 Gaillardia	"		6				"	ŏ	
							,,		
58 Henenrysum, Everlasting Flowers	"	0		1	2470		"	41	
59 Ipomæa**	"	0	6	ni	2471	Zinnia elegans	"	0	
59 Ιροmæa**	" erennial	0	6	nni:	2471 als, ar		"	0	
59 Ipomwa** Pe 72 Ancmone, Poppypr 73 Antirthipum	" ere nni al	0 .s, I	6 Bier	nni:	2471 als, ar 2488	Zinnia elegans	"		
59 Ipomæa** Pe 72 Ancmone, <i>Poppy</i>	" ere nnial er packet "	0 .s, I	6 Bier 6	nni:	2471 als, ar 2488 2489	Zinnia elegans nd Shrubs. Indian Pinkper Lapinus, newest	packet	0	
59 Ipomwa** Pe 72 Ancmone, Poppy	" ere nni al er packet "	0 .s, I	6 6 6	nni:	2471 als, ar 2488 2489 2490	Zinnia elegans nd Shrubs. Indian Pink	packet	0 0 0	
59 Ipomwa** Pe 72 Ancmone, Poppy p 73 Antirrhinum 74 Aquilegia 75 Auricula, prize	" er packet "" ""	0 s, F 0 0 0 2	6 6 6 6 6	nni	2471 als, ar 2488 2489 2490 2491	Zinnia elegans nd Shrubs. Indian Pink	packet	0 0 0 0	
59 Ipomwa** Pe 72 Anemone, Poppy pe 73 Antirrhinum 74 Aquilegia 75 Auricula, prize 76 Campanula	" erennial er packet " " "	0 s, F 0 0 0 2	6 6 6 6 6	nni	2471 als, ar 2488 2489 2490 2491 2492	Zinnia elegans nd Shrubs. Indian Pink	packet	0 0 0 0 0	
59 Ipomwa** Pe 72 Ancmone, Poppy pr 73 Antirrhinum 74 Aquilegia 74 Aquilegia 75 Campanula 77 Canterbury Bell	" er packet " " " " " "	0 0 0 0 2 0	6 6 6 6 6 6	nni:	2471 als, ar 2488 2489 2490 2491 2492 2493	Zinnia elegans Ind Shrubs. Indian Pink	packet	0 0 0 0 0	
72 Anchone, Poppy programmer prog	"erennial er packet " " " " " "	0 s, F 0 0 0 2 0 0 2	6 6 6 6 6 6 6	nni	2471 als, ar 2488 2489 2490 2491 2492 2493 2494	Zinnia elegans Indian Pink	packet	0 0 0 0 0 1 2	
59 Ipomwa** Per 72 Ancmone, Poppy property prop	" er packet " " " " " " " " "	0 s, F 0 0 0 2 0 0 2	6 6 6 6 6 6 8	nnii	2471 als, ar 2488 2489 2490 2491 2492 2493 2494 2495	Zinnia elegans nd Shrubs. Indian Pink	packet	0 0 0 0 0 1 2	
59 Ipomwa** Per 72 Ancmone, Poppy pr 73 Antirrhinum pr 74 Aquilegia pr 75 Auricula, prize pr 76 Campanula pr 77 Canterbury Bell pr 78 Carnation, extra fine pr 96 Chrysaathenum, Chinese p 180 Dahlia, superb double	er packet " " " " " " " " " " " " " " " " " "	0 s, F 0 0 0 2 0 0 2 1	6 6 6 6 6 6 6 0 0	nni	2471 als, ar 2488 2489 2490 2491 2492 2493 2494 2495	Zinnia elegans Indian Pink	packet	0 0 0 0 0 0 1 2 1 0	
72 Ancmone, Poppy pr 73 Antirrhinum 74 Aquilegia 75 Auricula, prize 76 Campanula 77 Canterbury Bell 78 Carnation, extra fine	" er packet " " " " " " " " "	0 s, F 0 0 0 2 0 0 2 1 1	6 6 6 6 6 6 6 0 0	nnii	2471 2488 2489 2490 2491 2492 2493 2494 2495 2496	Zinnia elegans Indian Pink	packet	0 0 0 0 0 1 2 1 0 2	
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SELECT ASSORTMENTS OF ENGLISH AND CONTINENTAL FLOWER SEEDS.

For the accommodation of those of our Customers who wish for several varietics of a Flower, but who are at a loss to know the most desirable sorts to select, we annex the following; and in consideration of an Assortment of several varieties of the same Flower being taken, we have somewhat reduced the prices from those charged for single packets: each Assortment will contain the most suitable and newest varieties.

	Hardy	Annuals.
No. 2524 6 varieties Calliopsis	s. d. 1 3 0 9 0 9 2 0 1 0 0 9 0 9 0 9 0 9 1 0 1 6 1 0 0 9	No.
H	alf-Har	dy Annuals.
2550 12 varieties Aster, Globe for 2551 12 do. new Peony-flowered ,, 2552 6 do. Balsam, double ,, 2553 6 do. Convolvulus major ,, 2554 4 do. Gaillardia, newest ,, 2555 4 do. Helichrysum ,, 2556 6 do. Ipomæa** ,, 2557 6 do. Lobelia, newest ,, 2558 4 do. Marigold, double French ,, 2559 4 do. double African ,,	1 6 2 6 1 6 1 6 1 3 1 0 2 0 2 0 1 6 1 6	2560 4 varieties Mesembryanthemmm for 1 3 2561 6 do. Petunia 2 0 2562 6 do. Phlox Drummondi 2 0 2563 6 do. Portulaea
Perenni	als, B ien	nials, and Shrubs.
2570 6 varieties Antirrhinum for 2571 4 do. Aquilegia		2583 4 varieties Indian Pink
	Greenho	use Seeds.
2596 4 varieties Aeaeia for 2597 4 do. Anagallis, newest " 2598 3 do. Calceolaria " 2599 3 do. Coekscomb " 2600 6 do. Erica " 2601 4 do. Geranium " 2602 4 do. Globe Amarauth " 2603 4 do. Heliehrysum " 2604 6 do. Heliotropium "	1 3 2 6 5 0 1 0 2 0 3 0 1 0 1 3 2 0	2605 4 varieties Hibiseus for 1 6

CHOICE CARNATION AND PICOTEE SEEDS.

From Plants selected from the finest Collections in Europe.

Carnation Seed supplied from our Establishment has long borne a high character; and we have much gratification in assuring our Customers that the following Collections are finer than usual, and, we may confidently assert, the finest ever submitted to public notice; they are grown for us expressly by an eminent Horticulturist in the South of Germany; the plants from which the seed is saved have been personally selected from the finest collections in England, France, Italy, and Germany by one of our Firm, who has travelled nearly the whole of Europe: we can confidently recommend the subjoined, as forming the choicest and most complete Collections ever submitted to public notice; and we are also enabled, from the extent of our arrangements, to offer them at a reduced price.

No.					s. (
2614	bronze, blue stri. lemon, red and brown. white, lilac and carmine.	white, rose and bronze. rose, red and violet. light violet and black.	yel., rose and silver. yel., red and brown.	red, rosc and violet. earmine, blue and blae grey and flesh-coloared	k.	0
2615	12 choicest varieties Fameus white and lilac. bronze and white. white, scar. and cerise.	c Carnations, 10 seeds of each li. bronze, brown and while. white and crimson. purple and cerise.	varicty, as follows	nankeen and rose. wh., cin. and cerise. yold and rose, rare.	3	6
2616	blood-red and black. pk., sil. and blk. bronze. yel., red and grey.	chamois and violet. pink and sienna. dark cham. and scar.	eeds of each variety, as follows cham., grey and purple. li., yel. and sicnna. sienna, pur. and crim.	yel., scar. and black. oranye, blue and ear. yel., blue and brown.	3	6
2617	12 choicest varieties Flake C white and violet. dk. br. and blk. pur. crimson and dk. violet.	arnations, 10 seeds of each va scarlet and grey. carmine and blue. white and peach.	ariety, as follows	blue and scarlet. white and rose. violet and grey.	3	0
2618	12 choicest varicties Ycllow yel., flesh and rose. salmon bizarre. yellow self.	Bizarre and Self Carnations, 10 buff self. sal. rosc purple. orange bizarre.	O seeds of each varicty, as foll yel. rose purple. lemon self. yel. and lavender.	ows	3	6
2619	12 choicest varieties Yellow buff and rose. yel. and crimson, yel. and pink.	Flake Carnations, 10 seeds of salmon and red. oranye and scarlet. yel. and rose.	f each varicty, as follows yel. and scarlet. salmon and rose. yel. and lavender.	yel, and purple, yel, and carmine, sal, and maroon,	3	6
2620	12 choicest varieties Yellow yel. and car. mottled. or., flesh and scarlet. yel. and pink, shaded.	Fancy Carnations, 10 seeds of yel. and state. sal. and scartet. yel., ro. shaded.	f cach varicty, as follows yel., flesh and pur. yel., rose and slate. yel., scar. spolled.	yel., lavender mottled. yel., scarlet mottled. sal., shaded cerise.	_	6
2621	12 choicest varieties White- wh. and dk. violet. wh. and steel. wh. and peach.	ground Picotecs, 10 seeds of e while and searlet. wh. and dk. carmine, wh. and cinnamon.	each variety, as follows white and rose. white and blue. white and bronze.	white and violet. white and purple. white and chestnut.	3	0
2622	12 superb varieties Yellow-g yel, and li. violet. yel, and dk. violet. yel, and vio. pur.	round Picotees, 10 seeds of ca yel. and cinnamon. yel. and brouze. yel. and seartel.	neli varicty, as follows yel. and dk. rose, yel. and earmine, yel. and chestnut.	yel, and grey. yel, and br. lilac. yel, and dk. brown.	3	6
2623	12 choicest varieties White-rwh., yrey and rose. wh., flesh and dk. crim. wh., sear. and bluc.	margined Picotecs, 10 seeds o wh., rose and black. wh., cin. and dk. brown. wh., li. and dk. lilac.	f each variety, as follows wh., ro. and violet. wh., li. and dk. brown. wh., steel and rose.	wh., yrey and rose, wh., bronzc and pur, wh., ccrise and pur,	3	0
2624		Self Carnations, 10 seeds of bronze. pake rose. yellow.	cach colour, as follows	maroon. carmine. crimson.	3	0
2625	12 choice varietics Perpetual rosy violet. carmine, mottled. pink and purple.	Fancy Carnations, 10 seeds of dark carmine and lilac. rosc and black. dark purple.	of each, as follows orange, peach and crimson, shaded pink.	rose shaded. cherry and pink. cerisc and parple.	3	0
626	12 choice varietics Perpetual rose. flesh and maroon. searlet and maroon.	Flake Carnations, 10 seeds of deep crimson. striped. rose and purple.	of each, as followsyell. striped. brown flesh. pink and lilae.	light scarlet. light parple, peach and erimson.	3	0
2627	rose and litae. crimson. pink and purple.	searlet and yellow, yell, and rose, pink and maroon.	s of each, as follows	flesh and crimson, crimson and slate, faney,	3	0
2628	12 choice varieties Perpetual crimson edge. purple edge. rose edge.	Picotees, 10 seeds of each vertical fancy rose edge. claret edge. fancy maroon edge.	ariety, as followsbrown lilae edye, red edye. scarlet cdyc.	fancy purple edge. chocolate edge. faney chocolate edge.	3	0

TREE SEEDS FOR PLANTATIONS, SHRUBBERIES, AND EXPORTATION.

For the convenience of our Colonial Correspondents, fresh seed of the undermentioned is kept in stock.

No.	No.
2629 Alder Alnus glutinòsa.	
2630 Arbor Vitæ, American Thùja occidentàlis.	2659 Juniper, scaly Juniperus squamàta.
2631 Chinese orientalis.	2660 —, tall excelsa.
2632 Ash, Mountain (Rowan) Py'rus aucupària.	2661 Laburnum, English Cy'lisus Laburnum.
2633 Ray Tree	2662 —, Seoteli alpinus.
2633 Bay Tree Laurus nobilis.	2663 Larch Larix europæa.
2634 Bead Tree Melia Azcdarach.	2004 Laurel, common Ceràsus Laburnum.
2635 Bean Trefoil Anayy'ris fatida.	2665 -, Portugal alpinus.
2636 Birch, upright Bétula alba.	2666 Laurestinus Viburnum Tinus.
2637 —, weeping pendulu.	2667 Lilae Syringa vulgàris.
2038 Bladder Seuna Colúlea arborcscens.	2668 Oak, American Quercus americanus.
2639 Broom, Spanish Spartium junceum.	2669 —, cluster conylomeràta.
2040 Gedar, Deodar Cèdrus Deodàra.	2670 —, Cork Suber.
2641 Chaste Tree Vitex Agnus castus.	267I —, English pedunculàta.
2642 Chestnut, Horse Esculus Hippocast anum.	2672 —, evergreeu Ilex.
2643 —, Spanish Castànea vesca.	2673 — Fulbon Jan 124
2644 Christ Thorn Patiùrus aculeàtus.	2673 —, Fulharu dentàta.
2645 Cypress, upright Cupressus sempervirens.	2674 —, live virens.
2646 —, pyramidal pyramidàlis.	2675 —, Lucombe's Lucombcàna.
2647 Fir, Scotch	2676 —, searlet coccinea.
	2677 —, Turkey Cerris.
	2678 —, jagged-leaved arguta.
2649 —, Pinaster or Cluster Pinaster.	2679 Olive Tree Olea sylvestris.
2650 —, Chili	2680 Phillyrea, narrow Phillyrea angustifòlia.
2651 —, Stone Pinus Pinea.	2681 Privet Liqustrum vulgare.
2652 Hawthorn Cratagus Oxyacantha.	2682 Red Cedar Juniperus virginiàna.
2653 Holly Ilex Aquifolium.	2683 Spindle Tree Euonymus europæa.
2654 Jasmine, yellow Jasminum fruticans.	2684 Sterenlia, plane-leaved Sterculia platanifòlia.
2000 Judas Tree Cercis siliquastrum.	2685 Strawberry Tree Arbhlus Unedo.
2656 Juniper, long-fruited Juniperus macrocarpa.	2686 Sweet Briar Ròsa rubiginòsa.
2657 —, brown-berried Oxucedrus.	2687 Thorn, black (Sloc) Prànus spinòsa.
2658 —, Lycian Lycia.	2688 —, Cockspur Cratægus Crus-galli.
2689 Tree of Heaven	Ailanthus glandulòsus.
	J J

FRUIT SEEDS (all of 1861 saving).

No.	s. d.	No.	8. 6
590 Apple Pips per packet	6	2703 Neetarine per pack	o+ /
691 Apricot	6	2704 Peach	30
692 Blackborry Lawren Cione	ė	9705 Deep D'	,
CO2 Comment the t	7 0	2705 Pear Pips	
593 Currant, black,	1.0	2700 Plum, Greengage	
594 red	10	1 2101 Orteans	
195 while	1.0	2708 Quince	
96 Gooseharry Champagens	īŏ	2700 Parahaman 7	
97 Golden-dran		2709 Raspberry, red	
	1 0	2/10 Strawberry, red Alpine	
98 Greengaye ,,,	10	# 2/11 British Chicon	1
99 Red Lion	1.0	2712 Ellon Pine	•
III Grane fined fanouned	1 0		
OI Mulhomy Mark	- •		Ţ
0I Mulberry, black ,,,	6	2714 Princess Alice Maud	1
02 white,	6	2715 Princess Royal	1

PRIZE ENGLISH HOLLYHOCK SEED.

The undermentioned have been saved by an English amateur who has devoted many years to the assiduous cultivation of this highly ornamental plant, now rising more than ever into repute. It is worthy of remark, that Hollyhoek Seed saved from good varicties proves very true to colour and form.

•		
No. 2716. 12 choice varieties, as follows		5 0
General Bem, rosy scarlet. Hon. Mr. Ashley, lilac peach. Memuon, scarlet. Lizzy, ciear peach.	Miss Ashley, creamy fawn. Celestial, palc blush. Blushing Bride, pink blush. Sylvia, rose pink.	Pink Perfection, rich pink. Fearless, pale cream. Solfaterre, sulphur. Queen of the Whites.
 No. 2717. 24 choice varieties, as follows Blushing Bride, pink blush. Sylvia, rose pink. Miss Nightingale, primrose. Glory, rich erimson. Leucantha, straw, tinted with apricot. Fearless, pale creamy fawn. Vesta, deep pink. Glory of Cheshunt, light rosy red. 	Pearl, delicately linted pink. Beauty of Broxbourne, deep crimson. Queen of Whites, pure white. Sceptre d'Or, yellow, scarlet base. Queen of Buffs, pale buff, compact. Saffrano, clear saffron. Alba pulchella, delicule white. Pink Perfection, rich pink.	Pourpre de Tyre, rich purple. Lilacina, lilac. Black Prince, shining black. Venus, pale flesh pink. Purple Perfection, bright purple. Lady Willonghby d'Eresby, creum. Saturn, apricol. Empress, fawn with apricol base.

No. 2718. 8 choice varieties

COLLECTIONS OF FLOWER SEEDS.

J. C. & Co. feel assured that the following Collections will give entire satisfaction, as they are executed in the most liberal manner.

HARDY ANNUALS.	
100 finest selected varieties, separate	s. d. 5 0 2 6
HALF-HARDY ANNUALS.	
100 finest selected varieties, separate	7 6 4 0
HARDY PERENNIALS.	
100 finest selected varieties, separate	6 6 3 6
HALF-HARDY PERENNIALS.	4.0
25 finest selected varieties, separate	4 0
GREENHOUSE SEEDS.	
25 choice selected varieties, separate 10 6 12 choice selected varieties, separate	6 0
STOVE SEEDS.	
25 finest selected varieties, separate 10 6 12 finest selected varieties, separate	6 0
GREENHOUSE CLIMBERS.	
12 beautiful varieties, separate	4 0
HARDY CLIMBERS.	
12 finest varieties, separate	1 6
SUITABLE FOR ROCK-WORK.	
12 fine selected varieties, separate	2 0
A O I I A TT CS.	
6 splendid varieties, separate, including Victoria Regia	10 0
ORNAMENTAL GRASSES.	1.0
12 fine selected varieties, separate 2 6 6 fine selected varieties, separate	1 6
HARDY ORNAMENTAL-FOLIAGED PLANTS. 6 fine varieties, separate3s. 6d.	
ANNUALS FOR FORMING LARGE BEDS.	5 0
12 large packets, separate	
NEW ANNUALS.	5 0
12 extra-fine varieties, separate	
INDIAN SEEDS.	5 0
25 fine selected varieties, separate 10 0 12 fine selected varieties, separate	
EVERLASTING FLOWERS (Immortelles).	2 6
12 splendid varieties, separate	20
CALIFORNIAN SEEDS.	2 6
25 fine selected varieties, separate 5 0 12 fine selected varieties, separate	20
CONIFERS.	5 0
6 extra-choice varieties	5 0
SWEET-SCENTED ANNUALS.	16
12 selected varieties, separate	1.0
HALF-HARDY CLIMBERS.	0.0
12 finest selected varieties	2 6

SUNDRY HARDY GREENHOUSE AND STOVE PLANTS.

ACHIMENES.

This highly ornamental genus, whose beauties are so well known, will succeed well in any rich light soil, and may be grown in all places where an ordinary Cucumber or Melon frame is used, in which they may be started. Most of the species are dwarf, compact, and branching in habit, and as objects of ornament are equal to any herbaccous tropical plants. Our selections form a large Collection; for list of names see our Plant and Bulb Catalogue.

Per doz., dry roots, one of each...... 4s. two of each 6s.

ACACIA.

These favourite Greenhouse ornaments present an almost endless variety of form, are very free blooming, and of easy culture; ornamental both in bloom and foliage. Our selection, in 6 varieties, at 1s. each.

AGAPANTHUS.

Highly ornamental, free, umbelliferous flowering Plants, suitable for cold frame or Greenhouse; very useful for single specimens and for pedestals. During summer and autumn require abundance of water while growing.

Umbellatus..... cach, 1s.

Umbellatus albus... each, 2s. 6d.

Umbollatus foliis variegatis ...each, 2s. 6d.

AGATHÆA CŒLESTIS VARIEGATA.

New, neat, dwarf, and compact in habit, with box-like foliage margined with white. A most desirable bedding plant for edgings....... 6s. per doz. 9d. each.

ARAUCARIA. -

AZALEAS (Indian).

These splendid flowering Shrubs are indispensable to all collections for winter and early spring flowering. Distinct named collections, one of a sort, our own selection, well set with flower-buds, 18s., 21s., to 30s. per doz.

AZALEAS (Belgian).

Very desirable, fragrant, free blooming; admirably adapted for early foreing. First-rate named varieties, in distinct colours, 1s., 1s. 6d., and 2s. each.

BEGONIA.

A very interesting trihe of ornamental-foliaged Stove Plants, of very easy culture; no stove should be without a collection of them. For list of names see Plant Catalogue.

BOUVARDIAS.

These plants freely produce large clusters of blossoms, varying in colour from pure white to vivid scarlet. The hybrids named below are most serviceable as Conservatory winter-flowering plants.

Oriana, Delicata, Laura, and Hogarth.....8d. cach.

CALCEOLARIAS (Shrubby Varieties).

Many of the large-flowered highly-coloured varieties are extremely serviceable as pot-plants for Greenhouse decoration.

9s. per doz.

CAECEOLARIAS (Herbaceous).

From finest strain of seed, 6s. per doz.

CAMELLIAS.

Fine plants, well set with flower-buds, selected from a collection of over 200 fluest established varieties. With flower-buds, 2s. 6d., 3s. 6d., to 5s. each.

CANNAS.

These are magnificently-foliaged plants for Greenhouse and for planting out in summer, their luxuriant gorgeous foliage imparting a rich tropical appearance; in great variety. For list of names see Bulb and Plant Catalogues. 1s. each.

CARNATIONS.

Novel varieties selected from a very celebrated Continental Collection; quite a new strain in this interesting Class, containing many distinct types, and highly recommended. Per doz. pairs 18s. to 24s.

CARNATIONS (Tree or Perpetual).

Our own selection from over 100 first-rate named distinct varieties, the production of a most eminent grower, including all the best-established varieties. 1s. 6d. to 2s. 6d. each; 15s. to 24s. per doz.

CINERARIAS.

These new varieties the finest of the season.

	8.	d.		8.	d.
Reynold's Hole	5	0	Maid of Astolat	5	0
Miss Eylcs			The Colleen Bawn		
Bridesmaid	5	0	Larline	5	0

Older-established varieties 9s. per doz.

CINERARIA MARITIMA.

Finely cut silvery foliage, very ornamental; well adapted, from its distinct and beautiful silvery appearance, for single specimens for Greenhouse decoration, also for margins of beds or rockwork. 9d. each; 6s. per doz.

CITRUS JAPONICA (Otaheite Orange).

For winter flowering, very fragrant, 2s. 6d. to 3s. 6d.

COBÆA SCANDENS VARIEGATA.

A most beautiful rapid-growing Greenhouse Climber, very effective; the most distinctly variegated of any Greenhouse Climber known. 2s. 6d. each.

COLEUS VERSCHAFFELTI.

Unquestionably the most strikingly beautiful plant that has been introduced this season. The foliage is elegantly laciniate, on young plants deep erimson margined with bright green, which, as the plants attain size and age, become entirely of a rich glowing erimson. Of most casy culture, requiring only a warm Greenhouse, of rapid growth, and a most desirable plant for specimens for exhibition. 2s. 6d. each.

CYCLAMEN.

This well-known genus is highly effective for decorative purposes in the Greenhouse or Conservatory; the following are well-established in nots.

as a contract of the contract					
Africanum (mierophyllum)	. 1	0	Persieum 1	(0
Europæum (blae)	. 1	0			
Latifolium	. 1	6			
Odoratum	. 1	6	Repandum 1	- (6

DAHLIAS.

Extra strong pot-roots of Show, Fancy, Bedding, and Pompone varieties from our unrivalled Collection, containing more than 200 named varieties; the finest selection from all the collections known.

Show varieties	***********	9s. to 12s.	1	Pompone	 9s. to 12s.
Fancy ,,		9s. , 12s.		Bedding	 9s.

DEUTZIA GRACILIS.

This very beautiful pure white favourite, in pots, for early forcing, extra strong plants, 1s. to 1s. 6d. each.

NEW FUCHSIAS.

Minnie Banks. The most perfect variety yet offered for habit, growth, and bloom; sepals white, broad, and elegantly recurved to a half circle. Corolla opening goblet-shape, and expanding to an elegant cup-shape, of a clear rich rose tint. 10s. 6d. Comet. A bold and effective large flower, with well-recurved broad scarlet sepals and a remarkably large violet-tinted

purple corolla, of an elegant large cup or parachute ontline, one inch and a half in width. 10s. 6d.

Selections from the best new varieties of 1861, raised by Messrs. Banks, Cornellisen, and Smith. 1s. 6d. each; 12s. per doz.

Always Ready. Black Prince. Conite de Hainault. Forget-me-not.

Figaro. General Boremans. King of Purples. Lord Elcho. Mammoth.

Marie Cornellisen. Prince Leopold. Perseverance. Pioneer. Star of the Night.

Triomphe de Cornellisen. Victor Emmanuel. White Lady.

FERNS.

Well established in pots suitable for Fern Cases or Stove and Greenhouse Rockwork, as well as for single specimens. Our selection, 9s. per doz.; purchasers' selection, 12s. per doz. Single Plants, 1s. to 1s. 6d. each.

Asplenium flaccidum. flabelliforme. viviparum. Adiantum assimile. Moritzianum. hispidulum. sctulosum. Blechnum anstrale. brasiliense. graeile. Cyrtomium falcatum.

Doodia lunulata. Diplazium lasiopteris. Gymnogramma albo-lutea. Martensi. ochracea. Wittenhalleana, 10s. 6d. Hypolepis Dieksonioides. Lastrea glabella. palndosa. Microlepis polypodioides. Nephrodium molle.

Pteris alba lineata, 3s. 6d. arguta. argyrea, 2s. 6d. longifolia. macrophylla. sulcata. tremula. tricolor, 2s. 6d. Phlebodium aureum. glaucum. Sitolobium davallioides.

For full Collection, see list in Plant Catalogue. For Fern Baskets, see page 51.

GAZANIA SPLENDENS.

One of the best of Bedding Plants, of deep orange colour, with central disk of black with white spots; very dwarf and free flowering. Plants for propagating, for spring bedding, 6s. per doz.

GLOXINIAS.

A most lovely genus; treatment same as for Achimenes. We have devoted the greatest care to the cultivation of these charming flowers, and are now able to offer the following new varieties of 1861, in pots, very distinct from any before out. Those marked * are erect, the others drooping varieties. Blooming plants in pots, our selection, 15s. per doz.; 1s. 6d. each; extra strong, 2s. 6d. each.

*A. Bonnard. *A. de Kinkler. Abel Carrière. Auguste Ender. C. M. Vanderstraal. Carlo Malenchini, Camille Piotrowski. Caroline von Trefurt. *Charles Raes. Comte F. Dydynski. Edward Pynaert. Ernest Benary. F. Puig. Frederick Mylins. *Gouverneur de Backer.

*Lnigi Gullino. Madame A. Leon. *Madame Pomery. Karl Fellman. Madame Celeste Winans.

Karl Enke.

*Lady Grosvenor.

Lady II. Vanc.

*Leon de Freminville.

Marquis de St. Innocent. MacNary. Pierre von Eckhaute. Prince A. Demidoff. *Victor Lemoin.

N.B. For older varieties, see Bulb and Plant Catalogues.

GERANIUMS, CLOTH-OF-GOLD.

The finest of all the golden variegated varieties; has now stood the test of three seasons, and is justly admired by all who have seen its great superiority over Golden Chain and all others of that class; it is undoubtedly destined to supersede Golden Chain entirely, being much easier propagated, as free in growth as Tom Thumb, and much more effective than any other yellow-foliaged variety. 2s. each; 18s. per dozen.

Crystal Palace Scarlet. The most perpetual blooming of all the scarlet varieties; per doz. 6s. Imperial Crimson. Mrs. Vernon. Fothergilli,

The best bedding varieties of the Nosegay section; 6s. per doz.

GYNERIUM ARGENTEUM (Pampas Grass).

A splendid ornamental flowering Grass, exceedingly effective; worthy of cultivation in every garden, its immense stalks of silvery plumes invariably attracting admiration.

HERBACEOUS AND ALPINE PLANTS.

	8.	d.	1		8.	d.
Double Primroses, in coloursper doz. Hepaticas, in colours , Violets, in sorts , Daisies fine large double, in varieties ,	6 6 6 3	0 0 0		Phlox, Perennial varietiesper doz. — —, new varieties, Antirrhinums, in fine variety,		0

HARDY HERBACEOUS PERENNIALS.

Our selection, from a collection of over 1200 varieties: for list of names see Plant Catalogue. Our selections for borders, rockwork, or any particular situation, from 4s., 6s., and 9s. per dozen.

HOLLYHOCKS.

Fine established plants of the following well-known varieties, extra strong; per doz. 6s.; 9d. each.

Carnea, flesh.
Cloth of Gold, orange yellow.
Enchantress, blush.
Fearless, pale creamy fawn.
Florence Nightingale, primrosc.
General Bem, rosy scarlet.
General Havelock, ruby scarlet.
Gloria Mundi, crimson.
Honourable Mrs. Ashley, lilae peach.
Joan of Are, silvery blush.
Juno, salmon red.
Lady Seott, rosy carmine.
Lady Jocclyn, cherry crimson.
Lily of the Valley, white.

Miss Bradley, blush.
Memnou, rosy scarlet.
Nimrod, claret.
Pearl, pearly white.
Queen of Denmark, orange buff.
Royal Albert, pale fawn.
Rosy Morn, bright rose.
Susannah, silvery white.
Sulphur Queen, sulphur, chocolate base.
Triumphant, deep scarlet.
Unique, carmine.
Walden Gem, ruby crimson.
Village Maid, crimson peach.

MANDEVILLEA SUAVEOLENS.

Favourite white-blossomed fragrant Greenhouse Climber; small plants 1s. each; strong 2s. 6d..

PANCRATIUM ILLYRICUM.

Extra fine-flowering bulbs 9d. each; 8s. per dozen.

PELARGONIUMS.

Large-flowered Show varieties from a first-rate collection, from 1s. cach.

Our selection, 12 varieties, all distinct, 6s.

Ditto ditto extra good, 12s.
Ditto ditto newer kinds, 18s.

Large-flowered French and English spotted varieties; selections and prices as in Shows. French Fancy varieties, a fine assortment; selections and prices as in the two former sections.

PINKS.

Pinks in named varieties, scleeted from a first-rate collection; per dozen pairs 6s. to 9s.

PICOTEES.

Novel varieties from same source as the Carnations, 18s. to 24s. per dozen pairs.

TRITOMA (Kniphofia).

One of the most showy, hardy, herbaceons, late-flowering border plants known, bearing long spikes of crimson and yellow flowers; strong-flowering roots.

Tritoma uvaria grandiflora, 1s. to 1s. 6d. each.

VERBENAS.

New varieties of 1861, strong plants, 12s. per dozen. Older do.

SCILLA IMPERATRICE EUGENIE.

Extra strong flowering bulbs, 1s. cach.

STRAWBERRIES.

New Varieties.

Sanspareil, 40s. per 100. Eclipse, 12s. per doz. Crimson Queen, 7s. 6d. per 100. Frogmore, Late Pine, 30s. per 100. Rifleman, 30s. per 100.

Extra Strong in pots for forcing (6s. per dozen).

British Queen.

Black Prince.

Keen's Seedling.

Older Varieties for planting.

Admiral Dundas per 100 Black Prince " British Queen " Caroline Superb " Filbert Pine " Kcen's Seedling "	3 5 5	6 0 0	Oscar	;; ;; ;;	3 5 3 5	6 6 0	
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CACTI.

We have pleasure in submitting to the notice of our eustomers these curious, beautiful and easily cultivated plants, which if better known would be universally grown; the singularly grotesque form and gorgeous beauty of many of the varieties render them objects of striking attractiveness, and their peculiarities contrast admirably with the other kinds of Greenhouse and Stove plants. Nearly all the varieties thrive well on out-of-the-way shelves, in places where other plants would be burnt up, requiring but little attention; one removal in the course of the season, into a mixture of old speut loam; very old mortar and brick rabbish is highly advantageous; very little water is required, except when they are making their young growth.

Our selection of good varieties 9s., 12s. and 24s. per dozen.

ORCHIDS.

We have cultivated a very fine collection of Orchids, but as the price depends so much upon the size of the plants, we did not think it advisable to give a detailed price-list, but shall be happy to send the prices of any sorts upon application. We can offer

12 good and distinct varieties, our selection, from £5 to £12.

VINES.

We have much pleasure in offering strong and particularly well-ripened Canes of the under-mentioned Vines, all our own growth. The great advantage derived by planting thoroughly ripened Canes has induced us to pay great attention to our crop this season, and we are consequently enabled to offer them much stronger than usual.

We have also a fine stock of extra-strong short-jointed, well-ripened plants, grown purposely for forcing in pots, and capable of producing 6 to 8 bunches of grapes each next year: the cultivation of Vines in pots is becoming so general now, that comments on the many advantages of that system are unnecessary; by planting out Vines of this size in Vinery borders one season is gained.

Hardy varieties for planting against walls or trellises. A whole season is often lost, or the plants very much cheeked, if the wood is not thoroughly ripened when first planted out; we shall take great earc not to send any but what are in proper condition. All other varieties not named in this list can be supplied at the usual prices; those marked H are the most hardy and best suited for out-door planting.

Strong Canes for planting, 3s. 6d., 5s., and 7s. 6d. Extra-strong Canes for fruiting and forcing in pots, 10s. 6d. to 12s. 6d. Hardy strong Canes for walls, 3s. 6d. to 5s.

	Black Hamburgh Berries, round deep purple, rich and juicy; one of the finest grapes for cold Vinery.
	Black Barbarossa
П	Black Prince
	Black Damascus Very large, long oval, good substance, dark purple.
H	Chasselas Musque (or Josling's St. Albans) Round, white, with rich Muscat flavour; requires plenty of air.
	Chasselas Royal Amber, round, rich, juicy, and sweet.
	Grizzly Frontignan Round, yellow, shaded red, fine Frontignan flavour.
	Muscat of Alexandria
П	Precoce de MalingreRound, white and sweet, very early and free bearer.
Н	Royal Muscadine
	White Frontignan
	White Nice

LILIUM GIGANTEUM.

This is by far the most stately of all the Lilies for cool greenhouse or conservatory decoration; from 4 to 8 feet in height, with large, glossy, dark green, heart-shaped leaves, and terminal racemes of drooping, trumpet-shaped, white flowers, marked with violet-crimson streaks. It has proved hardy in some countries, and we think there is great evidence of its being found ultimately hardy in all localities.

Fine strong flowering bulbs..... each 12s. 6d.

NOTICE.—As many of the Plants offered will be cheaper in May, James Carter & Co. particularly request that their next General Catalogue of Bedding and other Plants may be applied for.

It will be published on the 1st of May, and forwarded gratis and post free on application.



HANGING FERN BASKETS.

The above Hanging Baskets, many of new design, are extremely ornamental for Greenhouses, Stoves, or Conservatories. The above prices marked on the baskets are for the baskets filled with Ferns; we can also supply empty baskets from 1s. to 3s. 6d. each, according to size; we have also many other designs not figured in the above engraving for want of space.

HANGING FLOWER BASKETS.

We can also supply Baskets of the above patterns, filled with Hyacinths, Tulips, Croeus, &c., at from 3s. 6d. to 10s. 6d. each.

BULBS FOR SPRING PLANTING.

GLADIOLI.

Bulbs ready to send out at the end of October.

We have great pleasure in introducing to the notice of our Customers the following splendid collections of Gladioli, which have been selected by us from the stocks of the most celebrated French and Dutch cultivators; we wish also to call attention to their moderate price.

Pot culture.—Pot in light turfy loam and sand, with good drainage, mixing this compost with well-rotted leaf-mould, in about the proportion of one-third; prepare a bed of litter from the stable, which cover with tan or any dry and light composition, and place a frame on it, in which plunge the pots: give plenty of air, and withhold water until the bulbs have made root and the leaves appear; it may then be carefully given, when there is no danger of frost. Should the winter prove very severe, bank the frame up well with dung or litter, and cover the lights with straw or Bass Mats. If it should not be convenient to carry out the above directions, the following will be found a very good method of cultivation: pot in sandy loam as above, and place the pots in Greenhouse or Conservatory, near the glass, taking eare that the degree of temporature is sufficient to keep out frost.

Garden culture.—Propare your beds or borders by well digging them a spit deep, burying a stratum of good leaf-mould or rotten manure at the bottom. The surface soil should be rendered open by mixing sand with it and being well broken in digging; plant the bulbs in clumps or rows according to fancy, about six inches deep, taking care to cover them one includence with sand previous to ro-covering with mould. After the roots are planted, rake the ground well, giving it a southern inclination if possible; keep free from weeds, and stir surface occasionally; in severe weather cover the bed with two or three inches of dry litter. In the later stages of growth, the bulbs should be kept moderately moist.

French Seedlings from Gandavensis.

These varieties, from their free-flowering habits, strong trusses of bloom, and magnificent richness of colour, are among the handsomest Antumnal ornaments to the garden, and beyond a doubt the finest of all the Gladioli tribe.

Fine free-blooming varieties from Gandavensis (for Clumping).

The following scedlings from Gandavensis are more robust in habit than the Ramosus varieties, and are richer in colour. All weak-growing kinds we have discarded, and offer the under-mentioned splendid varieties at an unprecedentedly low price. For centres of beds, planting among the Rhododendrons or in Shrubberies, their effect is magnificent.

s. d.	s. d.	s, d,
Brenchleyensis, vermiliondoz. 5 0	Fulgens aurea pietadoz. 3 6	Monsieur Blouet, rosy carmine doz. 3 6
Ceurantii fulgens, crimson 2 6	Gandavensis, searlet and yettow 2 6	3 of each of the above 10 sorts, 9s. 6d.
Don Juan, orange red, yel. spots 5 0	Madame Coudère, car., shaded 3 6	6 do. do. do. 17s. 6d.
Emma, carmine, shaded 5 0	Madame Henrineg, yel. & lilae 5 0	
Fanny Rouget, rose, wh. & car. 3 0		10. 525, 54.

Newer varieties from Gandavensis (for Clumping)

Adonis, yellow and carmine .	doz. 6 0	Dapliné, cherry, striped carm. de	z. 7 0	Monsieur C	orbay, pur.	strined doz. 6 0
Aglae, salmon	50	Egèrie, salmon and dark rose	60	Pollonia, ro	se and earm	ine 5 0
Archimède, red, carmine stripe		Gil Blas	60	3 of each	of the above	12 sorts, 17s.
Aristote, carnation rose, varies		Hélène, french white, pur. stri.	6 0		do.	do. 32s.
Comtesse de Bresson, red, var	. 60	Janaire, orange red	50	$\parallel 12 \qquad do.$	do.	do. 58s.

Selected varieties of French Seedlings from Gandavensis.

doz cach

	doz. cae	n.		doz.	each.	
Berenice, beautiful rose red, variegated	$10 \ 0 \ 1$	0	Madame Binder, pure white, rose striped	12 0		
Calcudulaceus, satmon rose	$10 \ 0 \ 1$	0	Madame Engénie Mésard, rose striped		1 0	
Canari, light yellow, rose striped	10 0 1	0	Madame Vietor Verdier, rose, violet spotted		1 0	
Châteaubriand, cherry red, variegated	$10 \ 0 \ 1$	0	Mars, bright seartet		1 0	
Docteur Andry, bright orange	10 0 1	0	Mathilde de Landvoisin, white, earmine striped		1 3	
Edith, carnation, striped	10 0 1	0	Mazeppa, rose, yeltow striped	10 0		
Endymien, rose, tinted purple	10 0 1	0	Melas, rose, red var		1 0	
Esope, red, purple striped	10 0 1	0	Monsieur Vinehon, satmon, red and white	10 0		
Eugène Verdier, crimson, purpte spotted	10 0 1	0	Nemesis, ctear bright rose, white stripe	10 0		
Fischerianum, striped rose	$10 \ 0 \ 1$	0	Neptune, red, variegated carmine	10 0	_	
Galathée, carnation striped	10 0 1	0	Ninon de l'Enelos, carnation and rose	12 0		
Geliath, tight red, carmine striped	10 0 1	0	Oracle, brilliant eherry rose	10 0		
Gassendi, carmine, spotted	10 0 1	0	Osiris, purpte and white	10 0		
Hébé, carnation, striped carmine	$10 \ 0 \ 1$	0	Othello, tight orange red	10 0		
Impératrice, carnation striped	$10 \ 0 \ 1$	0	Pégase, carnation and chamois	10 0		
Jeanne d'Are, white, tinted rose	10 0 1	0	Pénélope, french white, carmine striped	10 0		
John Bull, white spotted	$12 \ 0 \ 1$	3	Prémices de Montrouge, bright red	10 0		
Le Bariole, carmine striped	10 0 1	0	Rebecca, white and tilae	12 0	1 3	
Léon Leguay, rose, carmine spotted	10 0 1	0	Sulphurens, sulphur-cotoured	12 0		
Madame A. Lebfevre, fine light rose	10 0 1	0	Vesta, white and carmine	10 0		

GLADIOLI (continued).

Newest and choicest varieties of French Seedlings from Gandavensis.							
	s. d.		each	s. d.			
Anatole Levanneur, violet red, spotted	1 6		Madame Briot, satin rosc, carmine spots	16			
Bertbe Rabourdin, pure white, carmine spots	$\begin{array}{c} 3 & 0 \\ 5 & 0 \end{array}$		Madame de Vatry, sulphur, white and carmine Madame Haquin, yellow, white and lilac	$\frac{3}{2}$			
Bossuet, orange, rosc spotted	23		Madame Hardy, rose, violet spots	3 0			
Celine, rosy white, marbled	2 6		Madame Lesèble, white, purple spots	5 0			
Cérès, purc white and purple	3 0		Madame Pauline, white, red spotted	16			
Charles Rouillard, bright carmine	1 6		Madame Rabourdin, rosc carmine, flaked with white	7 6			
Clémenec, satin rose, carmine striped	20		Madame Souchet, delicate flesh, deep rose spots	3 0			
Comte de Morny, dark cherry-red	$\begin{array}{c} 3 & 0 \\ 2 & 6 \end{array}$		Madame Vilmorin, rose, white centre, dark rose edgings,	7 6			
Comtesse Paul de Ségur, rose, carmine striped Diane, delicate carnation and rose	3 0		bcautiful carmine stripes	, 0			
Due de Malakoff, orange red and sulphur	3 0		violet purple spols	6 0			
Eldorado, fine pure yellow	6 0		Maric, pure white, carmine spotted	3 6			
Erato, delicate rose, carmine striped	3 0		Midas, red spotted	1 6			
Eugénio Verdier, crimson rose	3 6		Molière, dark carmine	5 0			
Eveline Bryère, salmon, spotted carmine	1 6		Napoléon III., bright scarlet, striped	3 0			
Florian, cerise, white lines	$\begin{array}{ccc} 2 & 0 \\ 2 & 0 \end{array}$		Olympe Lescuyer, orange and rose	3 0			
General McMahon, orange cherry, red spots	$\frac{2}{2} \frac{3}{3}$		Pline, light cherry and white	3 6			
Junon, white, striped lilac	6 0		Pluton, deep scarlet, white spots	5 0			
Keteleer, brilliant carmine	1 6		President Decaisne, cerise, carmine spots	2 0			
L'Eclair, vermition, deep carmine spots	1 9		Princesse Mathilde, light rose and carmine	3 0			
Le Poussin, light red, beautifully marked	6 0		Rembrandt, bright deep scarlet	3 0			
Léonard de Vinci, violet rose, striped	8 0		Raphaël, deep red vermilion	50			
Linné, orange cherry, yellow spots	$\begin{array}{c} 3 & 6 \\ 1 & 6 \end{array}$		Solfaterre, fine purc yellow	76			
Lord Granville, yellow, spotted	2 0		Vélida, light rose and lilac	3 0			
Lord Raglan, fine large, salmon	1 6		Vicomtesse de Belleval	3 0			
Madame Basseville, cherry and white	3 6		Vulcain, scarlet purple velvet	2 3			
	dlin	igs	from Ramosus.				
Amsterdam, brilliant orange, rose, finc while mark	0.8		Oscar, most brilliant scarlet, mark short, pure white .	0 9			
Batavia, brill. dark red, lower petals scar., wh. mark	0.8	;	Paulowna, bright orange rose, lower petals darker	0 9			
Cavaignae, rosc, shaded with brilliant or., white mark	1 6		Paxton, bright rosc, orange shade, clear white mark	1 0			
Christianus, bright pink rose, broad mark	0.6		Prince de Lichnovsky, brilliant scarlet, white mark	1 0			
Dietator, fine orange, broad mark	$-0.9 \\ -0.9$		Prince of Wales, dark red, fine mark	$\begin{array}{c} 0 & 9 \\ 0 & 9 \end{array}$			
Due d'Orléans, rose, dark shade, pure white mark	ΙO		Princess of Orange, bright lilac ro. or., pure wh. mark Princess Sophia, bright ro. shaded with or., mark long	0 6			
Duke of Devonshire, fine orange rose, broad mark Dumont d'Urville, brilliant rose, with dark shade, wh.	0 9		Professor Blume, brilliant orange rose, pure wh. mark	1 0			
Eclatante frappante, crimson, delicate mark, pure wh.	1.0		Queen Victoria, bright carm. rose, large wh. mark	0 4			
Ernest Maltravers, bright or. rose, narrow while mark	0.9)	Reticulatus, bright pink rose, broad mark	0 9			
Gloriosus, orange red, narrow mark	0.9		Robin Hood, bright lilac or. red, narrow wh. mark	0 9			
Goethe, bright lilac rose, large pure while mark	0.9		Rosa Superba, brilliant carmine rose	0 9			
Henricus, fine rosy red, shaded with lilac, violet	1 0		Rouge Claire, orange red	$\begin{array}{c} 0 \ 9 \\ 0 \ 9 \end{array}$			
Insignis, brilliant scar., margined with rosy carmine	0 0		Rouge Eblouissante, bright violet rose, lower petals or. Speciosus, pale orange rose, long white mark	0 6			
Jenny Lind, scar., nar. wh. line, edged erim. and car. Lafayette, narrow petals, fine red, bordered with violet	0.5		Unique Rouge, dark orange rose, pure white mark	0 6			
La Fille du Régiment, or. red, wh., edged with carm.	0.9		Van Dam van Isselt, rosy pink, long pure white mark	1 0			
Lamartine, pale orange and rose, long white mark	1.0	;	Van Hall, bright lilac orange red, narrow white mark	0 9			
Laurens Koster, dark red, small mark, bord. with vio.	0.9		Violet Superbe, delieate tilac rose, white mark	0 9			
Lehmann, orange red, broad short mark	1 (Vitallina, pate pink rose, long narrow white mark	0 6			
Lindley, brittiant orange rose, mark tong, bor. ro. vio.	1 (Von Humboldt, fine lilac ro., narrow pure white mark	0 9			
Lisette, pink lilac rose, mark wh., with vio. and carm.	$-0.9 \\ -0.9$		Von Siebold, bright pale orange, long white mark Walter Scott, fine dark red, marked white and lilac	0 9			
Lord Grey, violet rose, wh., viol. edge and brill. carnu. Lord John Russell, brilliant orange rose, mark white	0.9		Washington, bright rosy lilac, white bord. with lilac	1 6			
Lord Peel, lilac orange red, mark narrow white	0 9		Wilhelmus, pale rose orange, tong white mark	0 6			
Lord Wellington, brilliant orange rose, fine mark	1.0		Zenobia, brilliant earmine rose, short white mark	0 9			
Louis Philippe, brilliant orange rose, broad short mark	0.9		50 finest varieties, our own selection, for £2 2s.				
Mchemet Ali, bright or. with dark shade, small mark	0.9		25 do. do. £1 ls.				
Meline, dark ro., large mark, bor. with crim. and scar.	2 6		12 do. do. 11s.				
Monstrosus, bright rose, large mark, bord. with tilac	0 9	- 11					
NEW DWARF HYBRIDS. Fine ornaments in pots or vases, for Greenhouse or Conservatory decoration.							
	ses, re		Inkermann, orange pink, carmine edged	0 6			
Balaklava, rosy lilac, carmine feather	1.0		Maréchal Canrobert, pink, rose and white	1 0			
Bertha, bright rose, dark rose feather	0.9		Maréchal Pelissier, mauve-shaded	10			
Erato, crean and white, dark rose tube	0 6	-	Sebastopol, dark red, small feather	0 6			
Euterpe, delieate pink, distinct feather	0.9)	Terpsichore, mauve-colour	0 6			
Henriette, orange rose, white feather	1 0		Thalia, delicate pink, lilac feather	0.9			
Impératrice Eugénie, rosy cream, var	1.6		Taglioni, rose pink, varicgated feather	1 0			
The above splendid collection for 10s.							
MIX	XEL	Ģ	LADIOLI,				
Finest mixed French seedlings from Ga	ndave	ensi	s per 100 17s. 6d., per doz. 2s. 6d.				

SUNDRY HARDY AND GREENHOUSE BULBS.

AMARYLLIS.	CLIVIA.
Ackermanni, crimson s. d. Aulica, scarlet and green 3 6 3 6 3 6	Nobilis, scarlet and yellowcach 2 6
platypetala ,, 5 0 Crocata, orange scarlet ,, 3 0	CORYDALIS.
grandiflora, vermition, 3 6 superba, scartel, 4 0	Eximiacach 1 6
Formosissima (Jacobæa Lily)per doz. 5 0 Johnsoni, scarlet and white	CRINUM.
striata, striped, 3 6 Lutca (Sternbergia tutea)per doz. 2 6	Capense, pinkcach 1 0
Prince of Orange	CYPRIPEDIUM,
Vittata, striped	Calceolus, yellowcach 2 6
	DOG'S-TOOTH VIOLETS (Erythronium).
ANEMONES.	Red per doz 1 0
Finest Double.	White 1 6
100 in 100 selected varieties	Yellow (Erythrouium americanum)cach 0 9
—— mixed, 6 0	EUCOMIS.
Finest single scarlet, 6 0	Punctated, spottedcach 6 0
Double (for Clumping).	Regia, green , 4 0
	FUNKIA.
Blanche et Rouge, red, varper doz. 2 6 Celestine, fine blue, 2 6	
Feu Superbe, brilliant scartet	Cucullata cach 0 6 Albo-marginata " 1 0
Harold, purple blue ,, 2 6	Viridi-marginata
Josephine, dark scarlet, 2 6 L'Eclair, scarlet, 2 6	Japonica
L'Eclair, scarlet, ,, 2 6 L'Ornement de la Nature, deep blue, ,, 2 6	Lanccolata 0 6
Lord High Admiral, crimson	Ovata , 0 6 Subcordata , 0 6
Lord Nelson, violet blue, 2 6	Undulata , 0 6
12 of each of the above 9 sorts 20 0	medio picta, 1 0
6 of each of the above 9 sorts 10 6	, , , , , , , , , , , , , , , , , , , ,
3 of each of the above 9 sorts 5 6	GESNERIAS.
ARUM.	Blassi, dark scarleteach 2 0
Dracontium, greencach 0 6	Cilliabarina, arange searlet
Dracunculus, brown, 0 6	Densiflora , 2 6 Donckeleari, crimson and white throat , 3 6
Italicum, light yellow, 0 4	
Tenuifolium, white, 0 6	Zehrina, yellow and scarlet
DT ATTO A	Splendens, scarlet and nellow 9 0
BRAVOA. Geminiflora, crimson	splendidissima " 2 6
	GLORIOSA.
CALANTHE.	Plantieach 3 6
Discolor, whiteeach 1 0	
CALLA.	HÆMANTHUS.
Æthiopica, whiteeach 1 0	Coccineus, red
COMMELINA.	
Cœlestis, blueper doz. 2s., each 0 3	HELONIAS.
alba, white, ,, 2s. ,, 0 3	Bullata, purplecach 0 6

SUNDRY HARDY AND GREENHOUSE BULBS (continued).

ISMENE. s. d. alathina, white	RANUNCULUS, Turban. s. d. s per 1000.
Indulata, white, 0 6	Dark crimson or black
LILIUM.	New white, Hercules
urantiacumper doz. 3 6	Scarlet, Romano 17 6 2 Séraphique, citron 17 6 2
anadense each 1 0	Yellow, Merveilleuse
atesbæi 1 0	Finest mixed, all varieties 3
roceum, 0 6	•
xcelsum , 2 6	
cimium, 1 0	RHEXIA.
giganteum7s. 6d. to 12 6	Virginica, purpleeach . 0
Japonicum, 7 6	
cuustum, 2 0	
LILIUMS (Large).	SAUROMATUM.
ancifolium albumeach 1 6	Guttatumeach 5
punctatum, 2 0	
rubrum ,, 2 0	CICUDINCILIIM
LILY OF THE VALLEY.	SISYRINCHIUM.
ngle whitepcr doz. 1 0	Odoratissimumeach 1
ORCHIS.	T100.00
nopsca each 0 9	TIGRIDIA.
tifolia	Canariensiseach 0
aculata, ", 0 9	Cœlestis, 0
orio, 1 0	Pavoniaper doz. 3
DANIINGIII IIC DEDCIAN DOIDI E	conchiflora ,, 2 Speciosa ,, 3
RANUNCULUS, PERSIAN DOUBLE. 0 finest named varieties, scharate	5pcciosa
10 0	
xtra finc mixed, per 100 5 0	TRITONIA.
finest named varieties, separate 6 6	Aurca, orangecach 0
	various or any continuous various vari
,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	
For Clumping.	TUBEROSES, DOUBLE.
per 100. doz.	Fine solid rootsper doz. 3
mmodore Napicr, fine edged 10 0 1 6	•
chall, deep scarlet	
ont Blanc, pure white	VALLOTA.
hir d'Or, yellow spotted	
nflower, bright yellow 10 0 1 6	Purpurca, fine scarlet, strongeach 2
12 of each of the above 6 sorts	
6 of each of the above 6 sorts 5 6	ZEPHYRANTHES.
New Scotch.	
ne mixedper 100 12s., doz. 1 6	Atamasco
	DOSCS

BULBS GROWING ON FOR EARLY BLOOMING.

For the convenience of those of our Customers who might be prevented from ordering Bulbs at the usual planting Scason, we potted and put into glasses last October a number of Hyacinths, Narcissus, &c., which we have kept growing on at our Nursery, and offer as under.

HYACINTHS	. best named	varieties.	, in potsp	er do	z., 9s. to	12	0
Do.	do.	do.	in ordinary glasses	,,	12s. to	15	0
Do.	do.	do.	in the new-shaped glasses	,,	18s. to	24	0
Do.	do.	do.	in moss ready for planting in pots or glasses	,,	9s. to	12	0
POLYANTHU	S NARCISS	US, best	varieties, in pots	,,		12	0
TULIPS, fines	t varieties, in	pots		"	9s. to	18	0

JAMES CARTER & CO.'S COLLECTION OF GARDEN SEEDS FOR 1862,

OF

COMPLETE ASSORTMENTS OF VEGETABLE SEEDS FOR ONE YEAR'S SUPPLY.

In the following Collections it will be observed that there are fewer kinds than is usual in similar Assortments, as we have considered that it would be more satisfactory to our Customers to have increased quantities of a smaller number of varieties. We have omitted, therefore, any sort of Vegetable that is not usually grown in Kitchen Gardens, and have doubled the size of the packets of the remaining most approved varieties.

These Collections are always kept ready, and can be supplied at a moment's notice.

	No. 1. 10s. 6d.	No. 2. 20s.	No. 3. 40s.	No. 4. 60s.	No. 5. 100s.
Beans, best varieties for successiou	2 pints. 1 pint.	2 quarts. 2 pints.	3 quarts. 3 pints.	5 quarts. 3 pints.	10 quarts. 7 pints.
Beet, including Carter's St. Osyth, rccom- mended by the Royal Horticultural Society.		1 pkt.	1 oz. & 1 pkt.	1 oz. & 1 pkt.	3 oz. & 1 pkt
Borecole, including Cottager's Kail and Aspa-	2 pkts.	3 large pkts.	3 large pkts.	3 large pkts.	5 large pkts.
ragus Kail	l pkt.	l pkt.	I large pkt.	1 large pkt.	l large pkt.
Broccoll, for succession, including Grange's Au-	3 pkts.	3 pkts.	3 large pkts.	6 large pkts.	8 large pkts.
tumn white and Snow's Superb	2 pkts. 1 pkt.	3 large pkts. 2 pkts.	4 large pkts. 3 pkts.	5 large pkts. 2 oz.	8 large pkts.
Capsicum				I pkt.	l pkt.
Carrot, for forcing and general crop	2 oz. 1 pkt.	3 oz. 1 pkt.	6 oz. 2 large pkts.	10 oz. 3 large pkts.	18 oz. 3 large pkts.
Cauliflower, including Standholder and Walcheren Celery, including the Incomparable dwarf white. Cress, plain	1 pkt. 4 oz.	2 pkts.	2 large pkts.	2 large pkts.	3 large pkts.
——, eurled			4 oz.	½ pint.	1 pint.
, New Australian Garden	1 pkt.	l pkt.	l pkt. l pkt.	l oz. l pkt.	2 oz. 1 pkt.
Cueumber, including Carter's Champlon and Lyuch's Star of the West		1 pkt.	3 pkts.	3 pkts.	4 pkts.
Endive, of sorts		l pkt.	2 pkts.	1½ oz.	3 oz.
Leek, Musselburg Giant	9	l pkt.	1 pkt. 4 pkts.	1 pkt. 4 pkts.	l oz. 8 pkts.
Lettuce, including Carter's Giant white	2 pkts. 4 oz.	3 pkts.	1 pint.	1 pint.	2 quarts.
Melon, including Carter's Excelsior, which gained the first prize at the Crystal Palace		1 pkt.	2 pkts.	2 pkts.	4 pkts.
Onion, including the Giant Madeira and	l oz.	2 oz.	6 oz.	S oz.	15 oz.
Reading	l pkt.	l oz.	2 oz.	2 oz.	3 oz.
Parsnip, fine selected	l oz.	l oz.	2 oz.	4 oz.	8 oz.
Peas, best varieties for succession, including Carter's Earliest, Prizetaker, Champion of England, and Carter's Victoria	4 pints.	4 quarts.	7 quarts.	12 quarts.	20 quarts.
Radish, best sorts for successiou	4 oz.	6 oz.	10 oz.	14 oz.	l quart.
Rampion			1 pkt.	1 pkt.	1 pkt.
Spinach, Summer and Winter	$\frac{1}{2}$ pint.	1 pint.	l pint.	2 quarts.	2 quarts.
Salsafy			1 pkt. 1 pkt.	l large pkt.	l large pkt. l large pkt.
Seorzonera Turnip, best for succession	1 oz.	2 oz.	4 oz.	6 oz.	10 oz.
Tomato, including the new upright variety		1 pkt.	1 pkt.	1 pkt.	3 pkts.
Vegetable Marrow, including the New Custard	l pkt.	2 pkts.	2 large pkts.	2 large pkts.	2 large pkts
Herbs, Swect and Pot		4 pkts.	5 pkts.	5 pkts.	8 pkts.
Couve Tronehuda	1 pkt.		1 pkt.	1 pkt.	l pkt.

Dunn's Patent Solid Marking-Ink Pencils.

Directions for Use.—Slightly damp the surface of the Tally or Label, whether of Wood, Parchment, Zine, Galvanized Iron, or unglazed Porcelain, with the wet finger, and write thereon whilst damp; expose the writing to light in a dry place (Sunlight if possible), and it will become fixed and permanent. N.B.—Do not serew the Peneil Point out too far when in use.—Price 1s. each.

NEW VARIETIES OF VEGETABLE SEEDS.



NEW WHITE SPROUTING BROCCOLI.

This is a remarkable variety of late white sprouting Broccoli. The plant grows to an immense size, and produces from the axil of every leaf a good-sized head, while the crown is terminated by one of large size. These heads, or sprouts, amount sometimes to as many as fifty when a plant is well grown. During the late inclement winter this Broccoli maintained its character for hardness, and gave additional proof of its value by bearing most abundant crops. Season—January to March. Price per packet 12.

EARLY HANDSWORTH POTATO.

PHEASANT'S-EYE POTATO.

DELMAHOY SECOND-EARLY POTATO.

A handsome large-sized Potato, very floury and of good flavour; is one of the best varieties in cultivation as a second early Potato, and will produce nearly double the crop of any other kind; is free from disease, and a good keeper2s. per peck

NEW VARIETIES OF VEGETABLE SEEDS (continued).

SUTTON'S STUDENT PARSNIP.

This was originated by Professor Buckman, of the Royal Agricultural College, Cirencester, from the Wild Parsnip of Britain.

Professor Buckman has, amongst his numerous experiments in the Botanic Gardens of the College, for many years carried on a system of "selection," by which means he has produced several culinary plants much superior in flavour to the varieties in general cultivation. The Student Parsnip is one of these, and will be found a great acquisition to the public when it is brought into general use. Price, per packet, 12.

IVERY'S NONSUCE CELERY.

"Celery grown at Chirurick in 1839.—A collection of fifteen samples of Celery was cultivated for comparative trial at the garden in 1859; and various notes and memoranda concerning the peculiarities of the varieties, as well as their quality, were made; but the unusually severe and early autumnal frost injured the plants so much, that these memoranda could not be astisfactorily completed. It has accordingly been thought desirable to submit a more complete collection to a fuller examination during the present seasou. It may, however, be stated that, so far as the examination was carried, it was found that the variety sent as lvery's Ne Plus Ultra, by which name it appears that Ivery's Noanneh was intended, and another called llood's Dwarf Red, were the two best of the red kinds, both these being of very excellent quality; and that a dwarf variety, sent under the names of Superb Dwarf White and Incomparable Dwarf White, was the best of the white kinds. This latter closely resembles the Céleri Court Hatti of the French."—Horticultural Society's Proceedings. Per ounce, 1s.

HOOD'S IMPERIAL DWARF RED CELERY.

A stout-growing, very compact, solid and hardy variety, of superior flavour and distinct habit. Recommended by the Horticultural Society as one of the best varieties in cultivation. Per ounce, 1s.

etrathmore hero pea.

This new wrinkled Pea was raised in the Vale of Strathmore in 1856, and has since been selected every season with great care. It grows 4 to 5 feet in height; yields an abundant crop, as may be inferred when it is stated that it produced at the rate of fifty-two bushels per acre this last season. Pods large and well filled; favour excellent; and is well suited for general and late crops: for the latter especially it is invaluable, semp that hable to hypery from milder. Price, per quart, 1s. 6d.

TOMATO DE LAYE.

A new variety, spoken of by Dr. Lindley in the 'Gordeners' Chronicle' of November 24th, 1860, as follows:—
"A Naw upaight Tomato, which requires no support. This plant is said to be entirely different from the kinds previously known. Its stem is 2 feet high or more, quite upright, and so remarkably strong and stiff as to be strictly self-supporting—a highly commendable quality. It branches less than the common red Tomato, is less leafy, and does not want so much pinching. The leaves are rather curied, much puckered, very firm, and closely placed on the sturdy branches. Their colour is a remarkably deep shining greeu. It does not bear so freely as the common Tomato; but its fruit, which is of the same colour, is larger and more regularly formed. In earliness it is intermediate between the Early Red (rouge Adtree) and the Great Red (rouge grouse). It was raised from seed by Grenier, the gardener of M. de Fleurieux, at a place called the Château de Laye, wherefore it is to be called the Tomate de Laye."

We have grown the above and can specially recommend it. Per packet, 6d. We have grown the above and can specially recommend it. Per packet, 6d.

KEMP'S INCOMPARABLE CABBAGE.

Very dwarf, early, and compact; delicate flavour. Price per packet, 1s.

BALDRY'S SCARLET DEFIANCE RHUBARB.

The best sort in cultivation, either for market-gardeners, private growers, or forcing. It was awarded a First Prize, May 2nd, 1860, by the Pomological Society of London, when eighteen varieties were exhibited; a portion of each kind was examined, baked, and also a portion examined green. The Society report that it is unquestionably a First-class variety, very stout in habit, medium in length; pulp very deliquescent, high-coloured, and richly subacid. Excellent for market as well as private growers. Price, per root, 1s. 6d.

NEW FEATHER-STEM SAVOY.

A true Hybrid, possessing the growth and habit of Brussels Sprouts; a delicate and delicious vegetable, requiring the same treatment as Brussels Sprouts...... lo. per packet.

NEW VARIETIES OF VEGETABLE SEEDS (continued).

MELVILLE'S VARIEGATED GARNISHING KAIL.

Described in the 'Cottage Gardener' of December 18th, 1860, as follows :-

"These come true from seeds, and are highly ornamental, the colours being exceedingly brilliant, and of all shades, from magenta to pure white, some fringed, others veined, and some blotched. More beautiful-'foliaged' plants could not be found, and they might be advantageously made use of for the flower garden in winter."

Per packet Is.

CARTER'S DWARF MAMMOTH CAULIFLOWER.

A very early hardy variety, of dwarf and compact habit, with a firm white head, larger than the Walcheren; stands dry weather, comes in before the ordinary early Cauliflower, and is fit to cut after the late variety; can be specially recommended as the best variety for forcing and general use. Is, per packet.

NEW LETTUCES.

CARTER'S GIANT WHITE COS.

DUNNETT'S GIANT BLACK-SEEDED BROWN COS, for autumn sowing.

CARTER'S GIANT BROWN COS.

The above are three very large crisp and good-flavoured varieties of Lettuce, with fine broad leaves which turn in well, and require no tyeing; they are much later than the usual sorts of Lettuce, and if sown at the same time, will not commence to run for quite three weeks after the common sorts.

These Lettuces were specially noticed in the 'Gardener's Chronicle' of September 28, 1861.

1 packet of each of the three varieties 2s. 6d.; each, per packet, 1s.

WHEELER'S TOM THUMB LETTUCE.

Very dwarf and compact, excellent flavour, crisp, and refreshing.

Price, per packet, 1s.

BECK'S NEW DWARF GREEN GEM BEANS.

1 foot high, dwarf-branching habit, very prolific; the Beans are a fine green colour, and look well on table.

Price, per quart, 2s.

CARTER'S ST. OSYTH BEET.

Medium size, good shape, whort top, rich deep blood-red colour, fine flavour, decidedly the best Beet in cultivation (favourably spoken of in the Report of our Seed Farins, which appeared in the 'Gardener's Chronicle,' September 28, 1861).

Priec, per packet, 1s.

PERPETUAL SPINACH BEET.

Large leaves of a good colour, flavour superior to Spinach.

Comes into use right through the Autumn.

Price, per packet, 6d.

JERSEY NAVET.

A Correspondent from Jersey writes to us as follows:—

"The Jersey Navet is a green-topped Turnip, growing in the shape of a Carrot: is the best for Antumn sowing, inasmuch as it is very hardy and self-protecting, by growing into the ground. You can strongly recommend it: the roots are as sweet as units."

Price, per onnee, 6d.

NEW PARSNIP CHERVIL

A new vegetable, about the size of a Summer Carrot. Seed should be sown in the Autumn. Figured in the 'Gardener's Chronicle' of Oct. 5, 1861. 6d. and 1s. per packet.

NEW VARIETIES OF VEGETABLE SEEDS (continued).

APPLEBY'S SEEDLING CUCUMBERS.

We have much pleasure in offering the following six varieties of Cucumbers, which we received last year from Mr. Appleby, the well-known writer on Horticultural subjects: we have grown them at our Nursery, and can fully endorse Mr. Appleby's description of them, which is as follows:—

Emperor, 24 to 26 inches long.

A handsome fruit, with black spines; hardy, a good setter. Well suited for Winter culture.

Queen, 28 to 30 inches long.

A fine well-shaped fruit, with black spines; a free bearer, good setter. Suitable for Exhibition.

Conqueror, 28 inches long.

Handsome in shape, with white spines; a good bearer. Fit for Exhibition, very excellent in quality.

Albion, 24 inches long.

A white-spined, well-shaped variety; extra hearer, a good forcer, and hears freely in winter. Qualities excellent, being crisp and well-flavoured.

Hailstone.

Blunt white spines in the form of hailstones; a free bearer; handsome and curious.

Hamilton's Improved Black Spine.

A well-known excellent variety.

The above Collection for 3s. 6d.

CARTER'S CHAMPION CUCUMBER.

LYNCH'S STAR OF THE WEST CUCUMBER.

The best variety for general use.....ls. per packet,

NEW HARDY RIDGE MELON,

"Achapesnorricher."

A handsome green-fleshed variety from the lonian Islands. Flavour quite equal to Melons grown in a pit. The seed now offered is saved from fruit grown on a ridge out of doors last year.

Price, per packet, 1s.

THE TWO BEST MELONS IN CULTIVATION.

CARTER'S EXCELSIOR MELON.

SCARLET GEM MELON.

The best Scarlet-fleshed variety1s. per packet.

CARTER'S CHAMPION BROCCOLI.

The following is an extract from the ' Gardener's Chronicle' of May 28th, 1859 :-

Messrs. Carter and Co. have sent us specimens of a new Broccoli with the following memorandum: -6 This Broccoli has been proved side by side with the Wilcove late white, Ward's late winte. Reading Giant late white, Dwarf Danish, and other approved late kinds, and has shown itself superior to all of them. The Wilcove late white are finished cutting more than a fortinglit since; this variety is just coming in, and fine heads will be cut for the next ten days."

The heads forwarded to us were of the flurst possible quality, very large, not in the least coarse, white rather than creamcoloured, and proved when cooked to be wholly free from the strong laste which spoils so many Broccolis.

Stock of seed very limited; price, per packet, 1s.

KITCHEN-GARDEN SEEDS, ETC.

In submitting (annexed) to the notice of nur Customers and the Public generally our Twenty-seventh Annual List of Vegetable Seeds, we beg leave respectfully to announce that it has been subjected to a most careful revision; all sorts in any way questinnable have been expunged, several novelties of ment have been added, and kinds most to be recommended are printed in black letters. As a heading to each kind of Vegetable, we have made a few general observations, which we trust may be found useful; for further information respecting cultivation, &c., reference may be made to the Calendar of Operations, commencing at page 73. The quality of nur Seeds we are confident cannot be surpassed, as they are genuine and of the best growth. The harvest has been unusually good, and some articles are consequently cheaper than last year.

A \ 10. may be had at the same rate as a 10.; \ a an oz. at the same rate as an oz.; a pint at the same rate as a qt.; and a à bushel at the same rate as a bushel.

· / · · · · · · · · · · · · · · · · · ·
ARTICHOKE.
Propagate by seed when plants are scarce; to be sown early in April: but the quickest method is by plants either in October or March (see page 69): the grannd should be deeply treached and well manured.
Green
ASPARAGUS.
Sow the seed in drills by the end of March, and at one year old the roots will be fit to transplant into prepared beds, which should be liberally manured and salted. One-, two-, and three-year old plants may be had (see page 69).
Giantper lb. 2 0 Large early Batavianper oz, 6
TOTA NO
BEANS.
Plant Mazagan and Earliest Dwarf Fan in November in strong ground, commence again at the end of February, and in succession until the beginning of June.
Earliest Dwarf Fan per qt. 8 Johnson's Wonderful per qt. 8 Early Mazagan " 6 New Emperor " 8 — long-pod " 6 Largest Windsor " 1 0 Green Nonpareil " 8 Taylor's do. " 1 0 Beck's new Dwarf Green Gem " 2 0 Green do., fine " 1 0
BEET.
Sow Spinach Beets by the middle of ApriFin good ground. Red Beets for the main crops the last week in April or the first in May: all the varieties will be much improved by the application of saline manure in a liquid state; trench the ground deeply; and if dung is added, let it be at the bottom of the trenches. Carter's St. Osyth per pkt. 1 0 Small selected blood-red per oz. 6 New Pine-Apple Short-top per oz. 9 White per oz. 9 White per pkt. 3 Garnishing, in variety per pkt. 3 Bailey's blood-red per pkt. 3 Nutting's selected dwarf red per pkt. 3 Silver or Spinach Beet per pkt. 3 Perpetual Spinach per pkt. 3
BORECOLE OR KAIL
Sow in March for early, and in April for main crops.
Dwarf green curled Scotch per oz. 6 Jerusalem per oz. 9 Tall do. do. " 6 Knoll " 6 Asparagus (true) " 1 0 New feathered Scotch " 6 Buda " 1 0 New heading " 9 Delaware " 6 Variegated " 6 Cottager's (true) " 1 0 Melville's garnishing per pkt. 1 0
BROCCOLI.
Most of the sorts should be sown about the first week in April, for late Spring use; sow the late sorts in the middle of May; sow Walcheren in May and August, and transplant into richly-manured ground.
Carter's Champion per pkt. 1 0 Early Cape, purple per oz. 1 6 — Cape, white per pkt. 1 0 Dancer's late pink Cape per oz. 1 6 Early Grange's per pkt. 1 0 — Spronting per oz. 1 0 Early Walcheren , 1 6 Early Walcheren , 1 6 — white Malta , 1 0 Late close-headed purple , 1 0 Late close-headed purple , 1 0 Late close-headed purple , 1 0 Late close-headed purple , 1 0 Late close-headed purple , 1 0 Late close-headed purple , 1 0

Adams's early white







MUST	ARD.					
The same as the	e curled Cress.					
Brownper pint 1 6	Whiteper qt. 1 6					
CNO	ON.					
Sow the main crops in March and April, and about th	e second week in August to stand through the Winter.					
Blood-redper oz. 0 9	Readingper oz. 0 9 Silver-skin 0 9					
Deptford 0 6	Spanish brown , 0 9					
Globe	- white , 0 9 Strasburg , 0 6					
James's keeping 0 9	Tripoli, large flat " 0 9					
Lisbon , 0 6 New Giant Madeira , 1 0	Very early Nocera 1 0					
Pickling, 0 9	Welah ,, 0 6 Pear-shaped ,, 0 6					
Portugal, brown , 0 9 , 0 9 , 0 9						
2 oz. of each of the 6 finest aorts 7 6	1 oz. of each of the 6 finest sorts 4 0					
ORACH OR FRI	ENCH SPINACH.					
Sow for succession	in March and April.					
Redper oz. 0 6	Yellowper oz. 0 6					
PARS	SLEY.					
Sow in drills from the end of	February to the end of May.					
Dunnett's garnishingper oz. 0 6	Myatt's garnishingper oz. 0 6					
Extra curled, 0 3	New matchlesa winter , 0 6					
	dage to					
	SNIP.					
	ep rich soil, and thin early. Guernseyper oz. 0 4					
Fine selected 0 6	Hollow-growned					
Sutton's Studentper pkt. 1 0	New Parsnip Chervil per pkt. 6d. & 1 0					
	AS.					
es 4 Williams and the later morte twing a minnill '	st Early in January. Emperor, Bishop's long pod, Glory and to the end of May; two sowings in June of earlier sorts for a wember. Carter's Victoria, Ne Plus Ultra, and King of the					
Earliest	Varieties.					
Carter's Earliest 3 ft. per qt. 1 0	Dunnett's first Early					
Daniel O'Rourke	Sangster's No. 1					
Diffesione a marry	•					
Early and Secon	d Early Varieties.					
Auvergne	Early Framc					
Hine Echnise	Harrison's Perfection					
Denyer's Prolific	Warner's Emperor					
Beck's Gem	Excelsior Marrow4 ft. ,, 1 0					
Early Wrinl	cled Varieties.					
9.00 mar at 1.6	Champion of England					
Climan or Manoloon3 ft 1 0	Fairbeard's Nonpareil3 ft. ,, 1 6					
Sea-green, newper que se voit						
	Late Varieties.					
Beck's Prize-taker	Noble's green					
Rine Prussian U 5	Royal Victoria					
Dwarf green Marrow	Sugar (entable pods) 1 0					
Fairbeard's Surprise ft. ,, 1 0	Flack's dwarf Victory					
Glory of England	1 Todalotta's Broom the					

PEAS (continued).

Late Wrinkled Varieties.

ARCC WITHELD VALUETOS.	
British Queen	2. d. 2 0 1 6 1 6 1 6 2 6 1 6 6 6 6 6 6 6 6
POMPKIN.	
Sow in heat in April, and transplant in May.	
Large yellowper pa. 3 Mammethper pa.	3
POTATO SEED (for exportation).	
Sow in pans in heat in April, and plant out in May.	
Earlyper oz. I 6 Lateper oz.	1 6
RADISH.	
Sow on a moderate hot-bed in January, February and March, and twice a month in the open borders; a sowing frame on a warm border in October is of great use. Watering through the summer should be done early in the morn when the sun shines hotly upon them.	in a ning,
Long frame , , 2 6 , red , white White Naples White Naples	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
RAMPION.	
Sow in May and June.	
Per packet	3
RHUBARB.	
Sow in heat in March, and plant out in May in a deep rich soil.	
New Emperor per pa. 6 Royal Albert per pa. Mixed Victoria per pa. 6 Victoria per pa.	6 6
SALSAFY.	
Sow in April ln deep rich soil, and thin early.	
Per ounce	9
SCORZONERA.	
The same treatment as Salsafy.	
Per ounce	0
CDA WAY	
SEA KAIL.	
Sow in beds, the end of March or beginning of April (for roots, see page 69). Per ounce	. 1
	6



	RUSSIAN MATS (large size).		8,	ď.
Extra large (very scarce) St. Petersburg, best quality .		per doz.	3 0 18	0
	TOBACCO PAPER.			
Per 1b	• • • • • • • • • • • • • • • • • • • •		1	6
TOBACCO for fumigating	(rough Shag)	per lb.	3	6
	CUBA BASS.			
Best quality, per 1b		••••••	3	6
Brow	rn's Floral Shading (in pieces of 20 yards)			
No. 1 quality, 4s.	No. 2 quality, 4s. 3d.	No. 3 quality,	7a,	
Garden	Notting (in pieces 10 yards long, 55 inches w	ride).		
No. 1, 4s. 2d.	No. 2, 5s.	No. 3, 6s. 8d.		
F	rigi Domo and Shaw's Tiffany.			
	TANNED NETTING.			
Inch mesh, 2 yards wide, per	yard rus		0	2
	This is a very cheap article.			

GARDEN IMPLEMENTS.

Manufactured by Messrs. Saynor and Cooke, of Sheffield.

Bright Garden Hammers, each 1s. 6d. and 2s. Warranted Garden Hedge Shears, each 4s., 4s. 6d., and 5s. 6d.

Cast Steel Blued Ladies' Trowels, each 2s. 3d.

Cast Steel Dutch Hoes, each 1s. 3d., 1s. 6d., and 1s. 9d.

Ladies' Garden Shears, with polished handles, 3s. 6d. and 4s. 6d.

Best Warranted Garden Rakes, per tooth 2d.

Warranted Patent Garden Scythes, solid steel points, each 4s., 4s. 6d., 5s., and 5s. 6d.

Grass Border Shears, handles 3 feet long, per pair 7s. 6d.

Stag Pruning Knives with steel caps, in great variety, with straight and crooked blades.

Ivory Budding Knives, in great variety, with straight and reverse points.

BEST GARDEN SYRINGES.

Ladies' small size Knuckle-jointed	each "	10s. 26s.
	COMMON GARDEN SYRINGES.	

Brass Valve with rose and jet Ditto, smaller size		
Brass Syringe with two roses and jet	••	7s. 6d.
Brass Ladies' with rose and jet		

ROOTS AND PLANTS.

ARTICHOKES.

Crownper dox. 5 0 Jeruselemper peck	2	
ASPARAGUS.		
2 years old	6	0
CHIVES.		
Per bundle	0	6
GARLIC.		
Per lb	1	0
MUSHROOM SPAWN.		
Best quality	5	0
UNDER-GROUND ONIONS.		
Per 14 lbs 6 0 Per lb	0	6
POTATOES (selected stock, for planting).		
Early Handsworth per peck 4 0 Birmingham Prizetakor per peck Albion Ashleaf per bush. 14 0 Flourball per bush. Ashleaf Kidney 12 0 Forty-fold , Fluke do. 7 6 Early Frame Lapstone do. 8 6 Soden's Early Oxford Wainut-leaf dn. 12 0 Shaw White-blossom do. 14 0 York Regents Red Ashleaf do. 7 11 0 Phoasant's Eye per peck Delmahoy, per bush. 8s.	9 9 10 10 7 8	
POT MARJORAM.		
Per bundle	0	6
RHUBARB ROOTS (extra strong).		
Linuxus	0	8 8
SAGE.		
Per bundle	(6
SEA KAIL.		
Largeper 100 8 0 Extra large, for forcingper 100 Extra strong, per 100, 15s.	12	0
SHALLOTS.		
Per lb	. 1	1 0
TARRAGON.		
Per buudle) 6
THYME, LEMON.) 6
Per bundle		
Per bundle		0 6

AGRICULTURAL SEEDS.

We again respectfully invite the attention of our Customers and the Public generally to this Branch of our Business, to which we are devoting the most careful attention: all the seeds are unadulterated, and of the present season's harvest, and being our own growth, we can confidently recommend the stocks, both for purity and as being carefully selected. The Turnips and Mangels are saved from large transplanted Bulbs.

The Grass Seeds contain the best sorts only, carefully mixed by ourselves, and thoroughly cleansed.

The past Autumn has been particularly favourable for the harvesting of Farm seeds, and consequently the seeds are of superior quality, and the prices are much lower than usual.

Our roots of Turnips, Mangels, Carrots, &c., exhibited at the Smithfield Club Show in December last, were very favourably spoken of in the report of the Cattle Show in the various London Newspapers.

Special quotations of prices at a reduced rate will be given where large quantities are required, on application.

CARTER'S IMPROVED ORANGE GLOBE MANGEL-WURZEL

Saved from large transplanted roots of good shape and a fine dark orange colour.

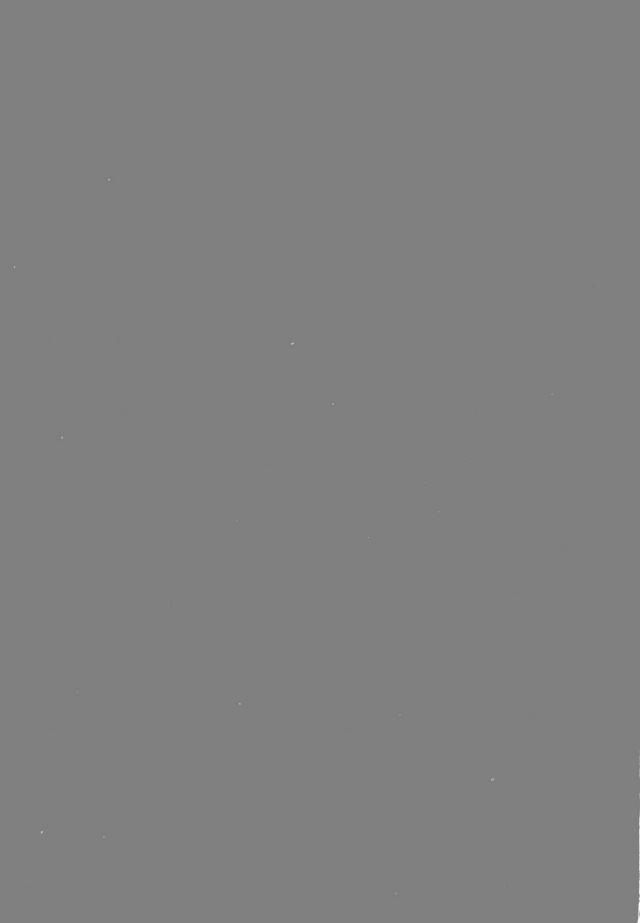
Can be recommended as the best Mangel in cultivation.

Price per lb. 8d.

CARTER'S LONDON SWEDE TURNIP.

An improvement on Skirving's Swede, the result of careful selection; is more perfect in shape, and not so much inclined to run to neck. Our roots exhibited at the Cattle Show were very much admired.

Price per lb. 1s.



GRASS SEEDS.

We had the pleasure of supplying the Royal Horticultural Society with Lawn Grass Seed, for laying down the New Gardens at Kensington, and the following is a copy of a letter lately received from Mr. Byles, the Superiotendent:—

"Royal Horticultural Society, South Kensington, W. 4th December, 1861.

"Gentlemen,
"The Grass and Clover Seed you supplied us with, for the gardens here, has answered the pur"pose well, and the Lawn looks as green as the part that was turfed, but, of course, not quite so solidly
"grown together.

" Messrs. Carter & Co."

" 1 am, Gentlemen, yours truly, " GEO. EYLES."

GRASS SEEDS.

We devote special attention to our Grass Seeds, which are thoroughly eleansed and mixed by ourselves, and we are confident cannot be surpassed.

RYE GRASS (2) bush, to 3 bush, to the acre).

Rye Grass may be purchased at a very low price per bushel; but the purchaser, in estimating its value, must take into consideration the weight per bushel. Our Rye Grasses are heavy seed and fine samples.

 Italian, English seed
 per bush.

 Italian, Imported seed
 " Perennial
 per bush.

 Annual
 " Dickenson's Perennial
 "

MIXED GRASS SEEDS FOR PERMANENT PASTURE.

We recommend a proportionate mixture of the undermentioned according to sail, averaging about 2 bushels light seed and 12 heavy seed (Clovers) to the acre. Price per acre................... 24s. to 32s.

Poa trivialis. Trefoil. Cocksfoot. Festuca ovina. White Clover. Sweet Vernal. Hard Fescue. Meadow Foxtail. Cow Grass. Festuca elatior. Tall Oat Grass. Italian Rye Grass. Perennial Rve Grass. .. pratensis. Poa nemoralis. .. prateusis. rubra.

Grass Seed for Park Lawns per lash.

Grass Seed for renovating old Grass Lands per lash.

Grass Seed for Chalky Uplands and Sheep Walks per lash.

Grass Seed for Wet Lands per lash.

Mixed Clovers for permanent pasture per lb.

GRASS SEED FOR FINE LAWNS.

This is really a splendid mixture, containing proportionate quantities of the following:

Crested Dog's tail.

Hard Pescue.

Sheep's Fescue.

Poa nemoralis.

Meadow Fescue.

Meadow Fescue.

Poa pratensis.

White Clover.

Suckling.

Price per bushel, 18sper lb. 1s.

SUNDRIES.

The prices of the annexed will be forwarded on application.

TRIFOLIUM INCARNATUM24 lbs. to the acre.

CLOVER.

White Dutch.
Red do.
Suckling.

Perennial or Cow Grass.

Alsike hybrid.

Trefoil.

SAINFOIN (4 bushels to 5 bushels the acre).

Common. Giant.

CARTER'S COLLECTIONS OF GARDEN SEEDS FOR 1862.

Being complete assortments of Vegetable Seeds for one year's supply.

Containing only the most approved and choice sorts, in quantities to suit large and small gardens.

No. 1. No. 2. No. 3. No. 4. No. 5. 10s. 6d. 20s. 40s. 60s. 100s.

These Collections are always kept ready, and can be supplied at a moment's notice.

SEEDS FOR EXPORTATION.

J. C. & Co. being large Exporters to the East Indies, Australia, Canada, &c., their experience can be depended on to select seeds suitable for any climate, and to pack them so as to ensure a safe transit.

PART II.

CALENDAR OF OPERATIONS.

JANUARY.

Kitchen Garden.

The operations of this month will be much influenced by the prevailing weather. Should the ground be favourable for working, every opportunity should be taken advantage of to trench up all vacant plots of ground, throwing it up as roughly as possible, to allow the frosts to penetrate thoroughly: the action of severe frosts upon soils, particularly such as are strongly adhesive, is equal to a good manuring; and the diligent gardener, knowing that the success of his crops depends much upon the proper preparation of the soil, will never neglect this simple but very important operation. Seeds sown when the soil is in a sour, ungenial state, may germinate, but will rarely flourish; and this often causes the Seedsman to be unjustly blamed. The beds for Parsnips, Carrots, Early Peas, and Onions, if not already trenched up, as they ought to have been in November, should be done immediately, and should afterwards be lightly forked over on dry frosty mornings with a steel digging-lork; this constant moving of the soil tends to dissipate moisture, and brings it sooner into a fit state for the reception of seeds and plants. We call attention to these preliminary remarks, because they will be found useful in other months.

General Directions.

Towards the end of the month, get in, if possible, a sowing of Early Peas. Carter's Earliest and Sangster's No. 1 are suitable sorts; sow also Dwarf Fan and Mazagan Beans. If required thus early, sow Wood's New Frame Radish in a frame on a gentle bottom heat; see that a good supply of dung and leaves are in the courso of preparation by frequent turnings for use next month. Look to the successional supplies of Sea Kale and Rhubarb: fresh patches may be covered in the open ground; but a less troublesome practice, when there is convenience, is to take up strong roots and place them in the Mushroom House, where also Endivo and Chicory may be placed for blanching for salads: keep up a supply of Mustard and Cress for the same purpose, by sowing once a week in boxes to be placed in a vinery at work, or in a frame with a gentlo heat. If the early Peas and Beans sown in November begin to peep through, cover them immediately with half-rotted leaves in a dry state from the sheds, where a store of such things should always be kept for emergencies. A few Early Frame or Ash-leaf Potatoes, for planting in pits and frames next month, may be laid out to sprout in any odd place where there is a gentle heat, as they require no mould, but only to be laid out on the floor, or in a shallow box, which is better than planting at once, as it saves trouble and ensures a good plant; wheel out manures and composts on dry frosty mornings, and give the beds of Asparagus a liberal dressing of rich well-rotted manure, which should be spread out evenly and left for a time. Give plenty of air to Cauliflowers in frames and mader handlights, remove decayed leaves; and if slugs are troublesome, stir the surface and dress it with soot and line.

Fruit Garden.

Pruning, dressing, and nailing of all the hardier fruits, such as Apricots, Pears, Phuns and Cherries, must be carried on without delay in all favourable weather. Where birds are troublesome, the pruning of Currant and Gooseberry bushes may be deferred for a time; but the present is a good season for the removat of two or three inches of the soil around their stems, supplying its place with some fresh compost, previous to which, if some quickline is thrown around the stems, it will very much assist the object in view, viz. to keep down the gooseberry eaterpillar. See that newly-planted fruit trees are secured from the effects of high winds; and if not already mulched with rotten manure, let it be done immediately.

Flower Garden.

Where there is the convenience of a vinery at work, commence about the last week in the month to pot off from the store pots the plants intended for bedding out, beginning with Scarlet Geraniums and other free-rooting varieties, leaving Verbenas and other more tender bedders until next month. Plants reserved in the Autumn for the purpose of furnishing Spring cuttings, such as Heliotropes, Fuchsias, Lantanas, Cupheas, Verbenas, and Lobelias, should also be brought into heat to start; see also that a sufficient quantity of fresh dung and leaves are getting ready for a bed for striking these cuttings. Have some composts under cover ready for the earliest sowing of Annuals next month: in the out-door department attend to nextness in the grass and the borders along the principal walks; trench up all vacant beds, adding some nice decayed leaf mould where necessary; thin out shrubberies, and, weather permitting, commence digging the same: if the Hyacinths in beds are pushing through, it is a good plan to cover the beds with dey rotten leaves. Bear in mind, that after this month every week will bring an increase of necessary operations; it is well, therefore, to be in advance.

Conservatory.

The gay appearance usually required in this structure at this season will very much depend upon what conveniences there are for supplying it: the forcing-house, the stove and pits, will all be drawn upon; and, for the welfare of such plants as have been tenderly reared, the temperature must be kept at a range of from 45° to 50°, and, although air should be given daily, if possible, cold draughts of cutting winds must be avoided: water in the forenoon, and keep all percolating water wiped up so as to have the walks dry and comfortable. The different varieties of Dutch Bulbs will here form a grand feature for the next three months, and will keep up a very gay and attractive appearance: it is surprising that plants so readily procured and easily cultivated are not generally used. The first batch from the forcing-house will now be expanding, and should be removed here before the flowers open, as they will thus last longer and flower tiner than when forced to expand in a higher temperature; Camellias, both in pots and borders, will be coming into bloom, and must not be allowed to want for water.

Forcing House.

This structure should now be in full action, and will be for some time the most useful one. If not already done, bring in a batch of American plants, Rhododendrons, Kalmias, Azaleas, Indian Azaleas, Roses, with many others; introduce a firesh batch of Dutch Bulbs for succession, also a few Tree and Neapolitan Violets; give air when possible, and keep the atmosphere moist and sweet; the temperature should not fall below 50° at night, and should riso 2° or 3° n week as the sun and light increase.

Stove.

Plants that have done blooming and require rest must have less water, and be removed to the coolest place; shift or top dress, and cut back, if uccessary, all that are starting into growth; and do not give them much water at first; cut back creepers required to bloom early; put a part of the stock of Gesneria zebrina to work, also a few Achimenes, Gloxinias, and Gesneras, if not already done.

Orchid House.

As many of these will now he starting into growth, the temperature and the humidity of the atmosphere may he slightly increased, but not too rapidly, as many of the plants are still dormant, and must not be hastily excited: when growth commences, see to the necessary shifting or surfacing, as may be necessary, using the composts in a very rough state, with the addition of lumps of charcoal and sandstone.

Greenhouse.

Hardwooded plants are most of them still in a dormant state, and must neither be overwatered nor subjected to more fire heat than is necessary to exclude frost. Such plants as Acacias, Correas, Winter-flowering Heaths, &c. must be removed to the conservatory as they show for bloom, when they may have more water and a more growing atmosphere: watch the state of the roots towards the end of the month; and if they are on the move, make immediate preparation for a good shift early next month, or an examination of the drainage and surface-dressing where shifting is no longer desirable; for it is bad economy to continue shifting the generality of hard-wooded plants beyond a certain reasonable and moveable size; it is far better to bring forward a stock of nice young plants, as being more interesting and affording room for a greater variety in display. Continue the shifting of Pelargoniums as they become ready: the most forward will now be ready for their blooming-pots; thin the branches out, and keep them nicely trained, give them plenty of stage room, and let them be often tuned about. A general shift of all the strongest Calecolarias will be necessary towards the end of the month: go over the whole of the stock, remove decayed leaves, stir the surface, and pay particular attention to funigation; for if insects are not kept under, all other cares are useless, both for these and Cinerarias; and their attacks are often so insidious, that the mischief is done before it begins to show itself: funigation, therefore, should be a part of the system, and be done about every three weeks. Cinerarias, if required large, should now have another shift; such as are throwing up for bloom may have a warmer temperature to encourage them to open freely; look over the slock for snecession, shift such as require it, and pot off more seedlings; remove old plants of choice Fuchsias into heat to furnish cuttings for Autumn blooming.

Forcing Fruit Houses.—Pineries.

Examine well into the state of the hottom heat in which the fruiting plants are growing; this must range from 80° to 85°; therefore, if it is declining, let it be renewed with some fresh material, but do not disturb the pots; a moist atmosphere is indispensable, which may be increased or lessened according to external atmospheric conditions, more being required in bright sumny weather than in dull cloudy weather; give air whenever possible: in syringing and watering be very careful not to wet the embryo fruit, any moisture on which would be fatal: keep succession plants dormant at present; but towards the end of the month a slight increase of temperature may be ventured upon, to prepare some of the best for shifting next month.

Vineries.

When the vines that were started in November are well broken and advancing into bloom, syringing overhead must be discontinued, and atmospheric moisture liberally supplied by evaporation; stop the shoots at one joint from the fruit as soon as it can be perceived, and at the same time remove entirely all superfluous shoots: look to the state of the coverings on the outside borders; if fermenting materials are used, it will be all right; but if not, something must be done to throw off the cold rains and snow, and more particularly to exclude the frost about the part where the stems enter the house, as we have seen a crop ruined by the main stem being exposed to frost when the buds were started: previous to starting the house for succession, let the walls be well washed over with a mixture of lime and sulphur; the stems of the vines should also be dressed with a mixture of lime, sulphur, soft-soap, and soot, unixed with water to the consistency of paint, and applied warm.

Peach House.

Increase the heat to such as are in bloom or just setting, and commence disbudding; finish pruning and dressing the trees in the houses about to be started; commence the application of fire heat in a very gradual manner; be careful to syringe freely and often before the bloom expands, and let the roots have a good soaking with tepid water. Figs may now be started; give the roots pleuty of water, and syringe the plants twice a day, shutting up early.

Pits and Frames.

Keep up a brisk bottom heat, at a range of 75°, to Cucumbers in fruit; maintain also a moist atmosphere, but admit air as often as possible; pot off seedling Cucumbers, and sow more seed; sow also seed of an early Melon (Carter's Excelsior) for first crop: start another batch of Strawberries in a gentlo bottom heat, with plenty of air when possible; make up Mushroom beds, and spawn them when the heat decreases to 80°. Let us here add, as a general rule applicable to every month, and of great importance to be remembered, always in watering at the roots, or syringing overhead, let the water be applied at the same temperature as the average of that in which the plants are growing.

FEBRUARY.

Kitchen Garden.

Regard being paid to our previous directions for the preparation of the soil, let no time be lost, when the weather is favourable, in getting in crops. Early in the month make a sowing of Round Spinach, Early Short Top, and Scarlet Radish; also Bath Cos Lettuce on a warm border; let these beds be slightly covered with dry brake, fasten it down, and remove when the seeds are up: sow Carter's Fine Selected and Hollow-crowned Parsnips; and make the first sowing of Brussels Sprouts, also of Carter's Early and Matchless Cabbage, also of Dwarf Ulm and Drumhead Savoy, and a small sowing of improved Red Dutch Cabbage.

Peas may be sown twice this month—the first of early sorts, the second of second early sorts (vide the Kitchen part of the Catalogue, where all the best varieties will be found in **black type**, and may be safely taken as a guide); the early wrinkled varieties are very superior, as also are Diekson's Favourite and Harrison's Perfection: make a good sowing of Early long-pod Beans; sow in frames, on a gentle bottom heat, Short French and Early Horn Carrot, also Wood's Early Frame Radish for succession: towards the end of the month make a sowing in shallow pans of Cauliflowers, Walcheren Broccoli, and Snow's Winter White Broccoli, also New Giant White Cos Lettuce and Celery; plant out a good bed of Cabbages from the store beds, and also a bed of Red Dutch Cabbage; plant Potatoes in frames with the sets laid out last month to spront, and lay out for spronting as many sets as will be required for planting early out of doors; they will be ready for use a fortnight before those planted in the ordinary way: keep vacant plots of ground moved about in frosty weather.

Fruit Carden.

Proceed with the pruning, dressing, and nailing in of Wall-fruit trees of all sorts, leaving Peaches and Noctarines until the last; have the necessary means at hand to apply as protection to Apricots, Peaches, and Nectarines, as soon as the buds begin to swell out; fill up, prune, and tic Raspberries, and give them a liberal dressing of rotten manure; prune Filberts when the female bloom shows; afterwards manure and dig the ground, removing all suckers.

Flower Garden.

Preparations for summer display must have constant attention: sow some of the most showy Hardy Annuals in pots, and place them in a frame on gentle bottom heat; these will flower very early: a few may also be sown on a warm border, to transplant into the flower borders when they are dug np next month: dress the beds or patches of Annuals which have been standing through the winter with soot and ashes to keep away snails; make up a good dung bed early in the month, and commence striking the cuttings of bedding-plants as soon as they are ready. When the first-potted bedding-plants are well rooted, remove them to a cooler temperature and supply their places with freshly-potted ones from the stores; bring forward the dry roots of choice Dahlias into heat, to furnish enttings: the tall varieties of Lobelias should be put into heat; and when started into growth, part and pot them singly into four-inch pots, and harden off when well rooted; shift Carnations and Picotees into their blooming-pots at the end of the month; protect choice Tulips and Hyacinths; fumigate Auriculas, and top-dress them; let them have plenty of air and protection from frost and damp: commence the pruning of hardy Roses, also of climbing Roses on walls and trellises; where crowded, remove exhausted wood and lay in young stuff. Dress overScillas and choice Crocus with soot and ashes; also lay traps for mice, which are very destructive to Crocus roots. Sow some pots or pans of German Ten-week Stocks (vide page 4 in Catalogue) for early flowering, also a pan of Delphinium cliniense and fornosum to flower late in the Autumn. Commence digging up the borders in the rougher parts of the Mixed-Flower Garden; and where the background is formed of shrubs, let them be thinned out, re-arranged, and blanks filled up as may be found necessary; some nice rotten-leaf mould pricked in amongst the choicer sorts will be very beneficial.

Conservatory.

Every exertion will be necessary to keep up the interest and attraction of this structure, by a strict attention to neatness, and by a frequent re-arrangement of the plants to produce fresh combinations; if the borders are getting hard and stale, let them be pricked over, and a little fresh compost added where needful. Clean the leaves of Camellias, Oranges, and other coriaccous-leaved plants, with a soft sponge, and syringe with tepid water occasionally before the blooms expand. Apply clear liquid-manure water to the roots once a week; forced plants of Camellias and Indian Azaleas must be returned into heat to make their growth when their beauty is past. This house will require an occasional fumigation; but it should be a general rule to examine thoroughly all plants which are brought in from the other structures, and to smoke them well in a separate place if at all infested. Amateur Gardeners often do not attach sufficient importance to this simple operation, and consequently do not always meet with the success their industry merits. The admirers of Dutch Bulbs will now be able to appreciate their beauty and the gorgeous display they frequently produce.

Foricing House.

As the different varieties previously mentioned advance into bloom, let them be removed to the Conservatory, and another batch of all the necessary sorts introduced from the reserve pits: do not forget to take them out of the foreing-house before the blooms expand; they will then continuo much longer and carry a finer colour. Such of the Amaryllids as are showing for bloom may be placed in this structure, also some large plants of Salvia spleudens, which will make a gorgeous show if all the earliest flowers are picked off and the back buds forced to start: introduce also some Azalea sinensis; they force well and are very fine. Pot plenty of Tuberose roots, and place them on a shelf near the glass; and when well broken, thin out the stems and tie up as they advance.

Stove.

As the most of these will now be emerging from quiescence, both the temperature and the humidity of the atmosphere may be gradually increased; but do not raise too high; at present a range of 50° to 60° is sufficient. Start a few more Achimenes, Gloxinias, and Gesneras, also the new Tydias from Ghent; let water be very sparingly supplied until they have fairly started into growth: cuttings of such sorts as me required for keeping up the stock, but more particularly such as will be required for winter blooming, should be got in immediately and placed in a frame on a dung bed with a brisk heat.

Orchid House.

The principal care here will be to avoid all unnecessary excitement; a temperature ranging from 65° by day to 50° at night will be most suitable. Plants which are making growth, as advised last month, must have the best situations, where their wants can be duly attended to; water them when they require it, and, if possible, keep the atmosphere moister about them: the floors and walls may be sprinkled twice a day to keep up a fresh agreeable atmosphere; but do not at present produce a moist atmosphere by evaporation from a heated surface; hunt up and destroy insects.

Greenhouse.

Most of the hard-wooded plants are now moving, and will require a general attention to shifting: let the whole of the stock be thoroughly revised; such as are in bloom will at present only require top-dressing; the same will apply to all plants which are become large enough for decorative purposes; but all young plants of various stages, growing forward into specimens, must have a shift, large or small according to the state of the roots: this should be carefully looked to, as indiscriminate shifting to save after-trouble is not skilful gardening; endeavour to keep the plants close for a few days after this operation, and be very careful in watering, until the growth of the plant shows that the roots are active, when more may be given; but at all times extra care in watering is necessary for hard-wooded greenhouse plants: previous to shifting, see that the balls are well saturated; young plants growing into specimens should not be allowed to flower, but kept back. As soon as the Chinese Primroses and Cincrarias, which are now blooming, are removed to the Conservatory, let their places be supplied from the reserve pits, which will thus give room for the shifting and spreading out of the later stock. Calecolarias in particular will require constant shifting and plenty of room; get in cuttings from the Fuchsias put into heat as soon as they can be procured; they cannot be get to work too early. Select a few of the best plants of Searlet Geramiums, Petunias, Tropæcolums, and Verbenas, and give them a liberal shift to bring them forward as Conservatory plants. Continuo the training of Pelargoniums, and shift the later stock; put in cuttings for Autumn blooming. Take care to have a frame with gentle bottom heat ready for a sowing of showy Annuals for the Conservatory early next month.

Forcing Fruit Houses.—Pineries.

Let the temperature be gradually increased as the days lengthen, both in the fruiting-house and also to succession plants; the bottom heat must also be carefully maintained, by whatever means it is produced; keep up a humid atmosphere, and give air whenever possible; water must be gradually withheld from such plants as have swelled their fruit and are beginning to ripen. Succession plants should now be shifted; bring all the largest and forwardest plants to the warmest end of the house or pit, to bring them forward to take the place of those from which the fruit is cut: in the fruiting-house, if the bottom heat is from tan, be very careful that the addition of fresh material, generally made at this shifting, does not increase it too much.

Vineries.

The berries in the earliest house will now be set, and are therefore ready for the very important operation of thinning, which is one that requires very great care in the manipulation. Be careful not to handle the bunches, nor touch them violently, because bruises, however slight, will disfigure the berries: but we would observe particularly that a very few minutes' draught of cold wind, when the berries are in this tender stage, will rust every bunch it blows upon; and a fortnight after, it will be wondered how it is that the grapes are rusted; never, therefore, at this stage of growth, give air at the front unless it can be thoroughly warmed, and not at the top when the wind is rough and cold. As the process of thinning goes on, let the shoots be carefully trained, and every superfluous one removed. Vines started last month will now be breaking fast; keep up a moist atmosphere, and syringe overhead frequently until the bloom begins to expand.

Peach House.

Thinning the fruit and disbudding are the principal operations in the carliest house; and this must be done in a very gradual manner, and at intervals: some little skill and practice will be required, as the mind must be carried on in advance of the present state of the tree, and the operation conducted with reference to what it should then be. Peaches are very impatient of the knife; and the great object of disbudding should be to obviate almost entirely the necessity of using it. Green fly is apt to appear at this stage, for which fundigation will be necessary; and if the red spider threaten, smear a little sulphur mixed with thin gum water on the pipes when cool; never introduce dry sulphur. Keep up a moist atmosphere both here and in the houses started last month, and syringe the latter freely until they are in bloom, when they should be kept dry for a short time to assist the formation and distribution of pollen: give the trees a smart rap now and then for the same purpose. Cherries may now be started; they sneeced best when they can have a little bottom heat and a free circulation of air: keep Figs well watered at the roots, together with a moist atmosphere and frequent syringing. Strawberries which have well set their fruit may be removed to the shelves of a Vinery, near the top, where air is given, and another supply brought into the pits for succession.

Pits and Frames.

If there is a pit to spare, now is a good time to fill it with good fresh leaves; and plunge it full of Strawberries in pots: they may remain there to fruit, and will come in very useful. Sow more Fulmer's Early Forcing Beans in pots for succession. Continue a brisk heat to Mclons and Cucumbers, with a moist but not stagnant atmosphere: keep the bottom heat about 75°; or clse the fruit will not swell off: pot off seedling Mclons and Cucumbers, and sow more seed of Carter's Champion Cucumber and Excelsion Mclon; sow Tomatoes, Chilics, and Capsicum at the end of the month.

MARCH.

Kitchen Garden.

This is a busy month indeed; and every exertion will be necessary. Two sowings of Peas must again be made this mouth,—the first to consist of the middle and late varieties, and the last of the late wrinkled sorts: Carter's Victoria, No plus 'Ultra, and King of the Marrows are Peas of unrivalled excellence; the rows are best single; but if not, they must be six feet apart. Sow Johnson's Wonderful, and Taylor's Windsor Beans; get in the main sowing of Parsley, also a good bed of Early Horn and James's Scarlet Carrot. The main crop of Onions should be got in about the middle of the month; consolidate the ground with a wooden roller, and sow in drills seven inches apart for the convenience of thinning. Sow Celery for the main crops early this month, and prick out on a gentle heat those sown last month. Sow Brussels Sprouts, Chou de Milan, Savoy Cabbage, and Borecole for the main crops. Make a small sowing of Snow's Winter and Grange's Broccoli for use in early winter; prick out the Cauliflowers sown last month, and make another small sowing on a warm horder.

The first week in the month sow Early Dutch Turnips in a frame on a gentle hot bed, and at the end of the month a good sowing in drills on a border; use plenty of seed, and scatter soot and ashes over the bed. Sow Spinach twice this month, and keep up successional sowings of Radishes and small Saladings; prick out early-sown Lettuce, and sow more seed. Plant beds of Globe Artichokes in soil well trenched and manured, also of Jerusalem Artichokes; they like freshly broken-up ground. Plant bods of Asparagus and Sea Kale, and sow seed for a supply of young plants; also plant Horse-radish in deeply trenched soil with manure at the bottom. Make fresh beds of Thyme, Mint, Tarragon, Sage, and other herbs; seeds of all kinds of herbs should be sown immediately. Sow Bush and Sweet Basil on a gentle heat. Begin early in the month the planting of early Potatoes, particularly the sprouted ones, and by the end of the month let all the main crops be got in; stir up the surface amongst all advancing crops. Plant out Cauliflowers and Cabbages from the Autuum beds, also beds of Tripoli Onion from the August sowing. Sow ulso a bed very thickly of Silver-skinned and Early Nocera Onion for picklers; the latter is for this purpose the best ever introduced. Trench up vacant ground. Earth up and stake Peas as they advance. Fork over very lightly the Asparagus beds; a few Radishes may be sown on the surface.

Fruit Garden,

Pruning and nailing should now be all finished off, and protection applied to Peaches, Nectarines, and Apricots. A few branches of Yew or Spruce Fir fastened over the blooms of choice Pears, if they should expand in sharp weather, will be of great service to them. By the end of the month the protection may be partially removed from Figs.

Flower Garden.

All the Autumn stores of bedding-plants must now be potted off without delay, and the stock continually increased by Spring-struck cuttings. Have some turf-pits in readiness for pricking out, at three inches apart, all the Spring-struck Verbenas: these pits must have a moveable waterproof covering; glass is best, but wooden shutters will do. See that Hardy Annuals sown in pots last month are getting hardened off for planting out. Sow Sweet Peas in pots in a gentle heat, to be hardened off quickly and planted out for early flowering; sow the same in the open border for succession. Prick out German Ten-week Stocks, and sow more seed. A general sowing of Hardy Annuals (vide Catalogue) may be made at the end of the month if the borders are ready. Sow also Lawn grasses in showery weather. Plant out seedling Pansies; top-dress Pinks and Curnations; stir the soil amongst the Tulip, Hyacinth, and Ranunculus beds, and protect them from snails. When digging the borders of herbaceous plants, reduce the size of all overgrown specimens, and fill np vacancies from the reserve garden. Finish pruning all Roses, manure them well, and replace rotten stakes. Keep grass and gravel well swept and rolled. Plant out bulbs of the beautiful varieties of Gladiolus. Throw up a dung bed the last week, for tender Annuals early next month.

Conservatory.

There will now be so many plants in bloom from other structures, that it will not be very difficult to make frequent changes in the arrangement of this house, which, besides increasing the interest and attraction, will be of benefit to many of the plants, particularly choice hard-wooded specimens, which ought not to remain long in houses of this description, being often built more for ornament than use. Soft-wooded plants may generally remain until they have passed their best; but at all times avoid overcrowding, and attend especially to keeping the foliage of all plants very clean and healthy. Camellias, Citrons, Oranges, and other permanent plants, being now in active growth, must have an abundant supply of water, and a dose of liquid manure occasionally; overgrown Camellias should be pruned in as soon as the bloom is over. If the wind is very enting, and tender plants from the Stove or Orchid House are introduced, nail some canvas, Shaw's Tiffany, or Brown's Floral Shading over such of the ventilators as open on the plants.

Forcing House.

This structure will still be very largely drawn upon for the decoration of the Conservatory and Drawing-room. Bring forward a further supply of Azaleas, Roses. Rhododendrons, also Weigola rosea, Deutzia gracilis, Forsythia viridissima, and Dielytra spectabilis. Continue to bring in Amaryllids as they show for bloom, which they now do pretty freely, and are so ornamental that no place should be without a collection. A good supply of hardy Ferns should be kept in pots, and brought into this house early this month; they form very beantiful objects, and are useful both for the Conservatory and Drawing-room; introduce a few plants of Otaheito Orange for the same purpose.

Stove.

The temperature of this house should now range from 60° by night to 80° by day with solar heat, giving air liberally when it approaches the latter. Shut up early with solar heat, and give a liberal syringing; take care also to keep up a moist atmosphere. The first-started lot of Tydea, Achimenes, Gesneria, and Gloxinia should now be put into their blooming-pots and more started for succession. Pot off the cuttings of Stove plants struck last month; more may still be put in; young specimen plants must be shifted as the pots fill with roots. Keep all advancing stock growing briskly, and give the softerwooded varieties an occasional dose of liquid manure. Sow Acacia coccinea and Ipomea limbata elegantissima, both of which are very beautiful.

Orchid House.

Plants now starting into growth must have attention paid to the roots: such as are ready may be shifted; others will only require to be top-dressed with fresh lumps of peat. Blocks and baskets should be put in order, or renewed if necessary. Insects must be hunted out and extirpated. Shade during bright sun, and give air in order to avoid slackening the fire too much.

Greenhouse.

All the young specimen hard-wooded plants shifted last month should now be making active growth both at root and branch, and must be encouraged by a more liberal supply of water and gentle syringing; stop strong shoots, and train the plants into the desired shape at once; no after-care will do it, if neglected now. Large blooming plants must not be stopped, but encouraged with plenty of water, frequent changes of position, and an ubundance of air; but still beware of cutting winds. Epacris which have now done llowering should be well cut back and placed in some rather close structure until they have started, when they may have a sluft, if necessary, and the growth gradually hardened.

Soft-wooded Greenhouse plants must now be encouraged to make all the growth possible. Cinerarias will be advancing fast into bloom; do not let them want for water, and be sure to keep down aphides. Shift the stock for later blooming, Continue the shifting of Calceolarias as they advance; the surplus seedlings may be hardened off for planting on a shady border out of doors. Keep Cyclamen at the warmest end of the house. Let Tropwola have a free circulation of air about them. Do not allow the plants of Double Chinese Primrose to perfect too many trusses of flowers, as it weakens them very much, in fact sometimes kills; remember also that drip and a damp stagnant atmosphere inevitably kill them. Sow seed of Primula sinensis fimbriata to bloom in the Autumn, also of Greenhouse seeds generally. Shift any plants of Pelargonium which may have been left for late blooming; train out the forward specimens; let them have a dose of liquid manure occasionally, and a free circulation of air; but be careful of fire heat, which is apt to draw the blooms up too fast.

Forcing Fruit Houses.—Pineries.

The whole of the stock should now be growing, which must be maintained by keeping up a brisk temperature and moist atmosphere. Plants swelling their fruit may have manure water now and then; but when ripening off; give but little water. Continue to bring forward the best successions into the fruiting-house as fast as the fruit is cut; also apply diluted manure water to the whole of the successions in a growing state, and frequently syringe about the lower part of the stems and ever the bed; watch the bottom heat, as strong sun often causes it to rise some degrees.

Vineries.

The progressive thinning of the branches, stopping the shoots and laterals, and training, will be the principal operations in the early houses; particular attention must be paid to the admission of air, avoiding cold draughts, and submitting to a few extra degrees of heat rather than admit cutting easterly winds, so prevalent at this season. Keep up a moderately moist atmosphere; be eareful to retard the latest houses as long as possible: but when the buds begin to swell, discipline must commence; close the houses with solar hoat, syringe well, and apply fire heat when necessary.

Peach House.

Persevere in thinning both fruit and branches in early houses: as the fruit advances towards the stoning point, be very careful of fire heat; do not overdo it. Maintain a moist atmosphere, and destroy insects; water liberally at the roots, and apply liquid manure once a week. Bring forward a good supply of British Queen Strawberries, also of other sorts for succession; syringe liberally, and give plenty of air. Give Figs and Cherries liquid manure sometimes, and stop the young shoots of Figs at about the fifth joint.

Pits and Frames.

Make a liberal sowing of Carter's Champion,"Lynch's Star of the West, and Cuthill's Improved Cucumbers, also more Melons, of sorts; maintain a brisk growing heat, and change the internal atmosphere as often as possible. Ridge out both Melons and Cucumbers for succession, and keep plenty of dung often turned about for heating purposes.

APRIL.

Kitchen Garden.

Particular attention must be paid early in this menth to the sowing of the different varieties of Brocceli, Cottager's Kail, Borccole, Cabbage, Brussels Sprouts, Cape Broccoli, and Cauliflower; those which may be safely depended on as the best sorts will be found in antique in the Catalogue. Let the beds have an open but sheltered situation, and be placed all together, so that netting may be stretched over to keep off birds. Sow Bath Cos, NewGiant Cos, and Paris Cos Lettuces for transplanting, and the different varieties of Cabbage and Silesian Lettuce in drills to be thinned out and left at the proper distances. Sow Musselburg Leek, Salsafy, and Scorzonera, also Sion Honse, Newington Wonder, and Light Dun Dwarf French Beans on a warm border the last week; for earlier purposes sew on heat, and harden them off to transplant under hand-glasses. Make successional sowings of late Wrinkled Peas, and let the ground be well manured and deeply trenched. Sow more Broad Beans, also Turnip Radishes about every ten days, and small Salading twice a week. Sow more of Early Dutch Turnip; and when the soil is in good condition, get in the main sowing of Long Surrey, selected Altrineham, and Intermediate Carrot; sow in drills. Small selected and New Pine-apple Short-top Red Beet may be sown the last week in the month, at which time also the first sowing of Scarlet Runners should be got in. Plant out Cauliflowers, Cabbages, and Lettnees for succession, attend particularly to the pricking out of Celery from the early sowings, and sow more seed in the open ground for late crops. Prick out Bush and Sweet Basil, and sow more seed under a hand-glass on a warm border. Remove the hand-glasses from Cauliflowers, earth them up in a basin-like form, and give them plenty of water and liquid manure. Tie up Lettuees for blanching, and keep the hoe constantly at work amongst all advancing crops.

Fruit Garden.

The operations here will very much depend on the weather: if the season is early, the disbudding of Peaches and Apricots may be commenced late in the month; do not remove much at first, as sudden changes in the weather are frequent. Protective materials must be removed gradually, so as to insure the trees to full exposure early next month. Watch well for the appearance of aphides on Peaches, and syringe with Tobacco water immediately. The leaf-roller on Apricots is very destructive to the young fruit, and should be systematically picked out. Run a narrow hoe through Strawberry beds, to oosen the surface and disturb vermin. Cut down the canes of Autumn-bearing Raspberries, nearly to the ground.

Flower Garden.

Let the principal sowing of Hardy Annuals be made immediately, if it were not done last month. The dung bed recommended last month will now be ready, and may at once be filled with pots or pans sown with Tender Annuals, such as French and Africau Marigolds, Spanish and Indian Pinks, German and French Asters, Zinnias, Nolanas, Tropacla, Maurandyas, Lophospermums, and many others which will be found enumerated in the Catalogue, most of which will be required to be pricked out into nursery beds to be finally transplanted into the borders towards the end of next month. Plant out beds of German Stocks from the early sowings, keep them shaded until rooted; sow more seed for succession, and also of intermediate stock for Autuum blooming. The value of bulbous plants for Spring display will now be fully apparent; for with Hyacinths, Jonquils, Narcissus, Scillas, Van Thol, and other Early Tulips and Turban Ranunculus, an amount of beauty may be realized which those who have not tried cannot conceive. Plant out immediately the beds of Tigridia Pavonia and conchiltora. Sow Hollyhocks and other perennial herbaccous plants, also biennials for next year's blooming. Let bedding-plants in their various stages have due uttention; any which are pot-bound may towards the cut of the month be turned out under a temporary framework into light soil, and kept covered at night: attend particularly to keeping down insects; it very ofteu constitutes the difference between success and failure. Look well to the watering of newly planted Trees, Shrubs, Roses, and Herbaccous plants, if the weather is at all dry and parching.

Conservatory.

Continue to pay particular attention to the removal of such plants as are likely to suffer from remaining too long in this structure. Forced Indian Azaleas must be taken back into heat to perfect their growth, previous to which examine them thoroughly for thrips or their eggs; and if infested, let them undergo a thorough funnigation in close quarters; at the same timo take the opportunity to prume them into shape, if necessary. Regulate and train out the permanent Climbing Plants as soon as they make growth. Secure a good supply of Hunca elegans, and sow seed now for next year's flowering. The following are a few of the most desirable Annuals to be brought forward in the other structures for Conservatory decorations:—Balsams, Brachycome, Browallia, Clintonia pulchella, Cockscomb, Phlox Drummondii in variety, Portulaeas, Schizanthus, Salpiglossis, Globe Amaranths, Lobelia ramosa, Egg Plants, and others which will be found in the Catalogue; they should be sown in pans the first week in this month, and placed in a gentle hot bed, potted off when ready, and grown on for some time in a dung-bed frame, shifted whenever necessary, and removed into pits to flower previous to being placed in the Conservatory.

Forcing House.

So many of the permanent conservatory and greenhouse plants will now be blooming, that this house will not now be so largely drawn upon; it may therefore be used as an auxiliary to the stove and other houses, which are apt to be over-erowded at this season. Young plants of Indian Azaleas may be brought in here to make their growth; and the stove may be relieved of the earliest Gesueras, Gloxinias, and Achimenes, which will now require plenty of room.

Stove.

Ixoras will now be making nice growth, and should have the flowering shoots trained out equally. Young plants of Æschyuanthus may have a good shift when well-rooted, and should be properly trained out to show their bloom. Fast-growing plants, such as Clerodendrons and Dipladenias, must have constant attention paid to shifting whenever they require it; maintain a brisk growing temperature with damp atmosphere.

Orchid House.

As most of these plants will now be advancing rapidly, the temperature may be increased to 65° by night, and 85° by day, with solar heat; at the same time every means must be used to keep up a complete humidity in the atmosphere, both by the use of water on the shelves and walks, and by evaporation. Be careful of syringing overhead until the growth is more developed. Shading must now be resorted to on hot, bright, sunny days.

Greenhouse.

Give air freely to Heaths in bloom or advancing thereto, and endeavour to keep the surrounding air rather moist, but not stagnant. Hard-wooded plants generally, such as Hoveas, Boronias, Chorozemas, Acacias, with many others of that section, will now make a grand display; attend well to the watering and aeration, as before directed. Shift some of the best Correas for early flowering next winter; also some nice plants of Mitraria eoceinea should be growing on fast for flowering in June and July. Remove all the blooming Cinerarias to the conservatory, us that will afford room for the successions to be shifted and brought on. The general stock of Calceolarias will be throwing up the bloom spikes, and should be supported by neat stakes; persevere in fumigation. The varieties of Lilium japonicum and Alstræmerias should now be more liberally watered, and placed in a pit near the glass. Attend to the stock of young Fuchsias; select some of the best to have a liberal shift for early flowering. Attend to previous directions with regard to Pelargoniums; keep them as near the glass as possible, them have plenty of room and a free circulation of air; give also a due supply of manure water; pick off the blooms of such as are retarded for late blooming, and fumigate often.

Forcing Fruit Houses, Pineries.

Progress is here the order of the day; keep the fruit well supplied with the strongest plants from the successions, which, being now in a very active state of growth, will require plenty of room. Attend well to the use of clear liquid manure to the roots, and also to keeping up the moisture of the atmosphere by evaporation and pouring water on the walks, &c. Let the bottom heat range at or near 85°; in short, use all the means, as before directed, to keep the whole stock progressing.

Vineries.

The operations here will not materially differ from those of last month, being principally confined to thinning the fruit, removing superfluous shoots, and stopping the branches and laterals. As the fruit swells off and approaches the storing point, avoid, as much as possible, extremes of temperature: 60° by night should be the lowest; and air may be given at 75° to 80° during the day. Attend to the state of the borders entside; and by whatever means they are protected from external influences, let it be effective, as a check at this stage would be very injurious: see also that inside borders are kept well supplied with water and liquid manure, always to be applied at a temperature of not less than 60°.

Peach House.

As these will now be swelling off the fruit, see that they are properly supplied with tepid water, and sometimes manure water, more or less according to the state of the drainage. As soon as the shoots are long enough, begin training them to the trellis: at the same time remove every shoot not actually required; but if the disbuilding has been gradually carried on, as so often advised, there will not be many to remove. Give abundance of air early in the day, but close early, with solar heat, and syringe abundantly; the temperature should range from 55° to 60°; and a little top air left on at night will be beneficial. Remove suporfluous shoots from Cherries, and stop luxuriant ones which are left on; lessen the quantity of water as the fruit ripens: the same remarks will apply to Figs. Let Strawberries ripening their fruit have abundance of heat, air, and light.

Pits and Frames.

Look well to the advancing crops of Melons and Cucumbers; thin out the vines, and keep them constantly stopped; encourage the swelling of early Melons by a good supply of tepid water, and a brisk bottom heat by frequent changes of linings; ridge out more for succession, and sow more seed: towards the end of the month throw up a ridge of dung and leaves; level the top, cover it with garden soil, and sow on it some Vegetable and Custard Marrow under hand-glasses: pot off Tomatoes, Capsiciums, and Chilies; give Turnips and Carrots in the frames a good supply of water to assist the swelling of the roots.

Now send for J. Carter and Co.'s General List of Bedding and other Plants.

MAY.

Kitchen Garden.

Considerable exertion will now be required to keep up with the work, which will increase every day: the hoc must be kept constantly at work among all advancing crops; and as soon as they can be well handled, thin out the beds of Onions, Carrots, Parsnips, Parsley, Red Beet and Turnips, to the proper distances; afterwards run a small hoc through the beds: sow Searlet Runners, the first week for the main crop, and the last week for succession: make two more sowings of late Peas this month, and see that they get plenty of water if dry weather sets in: sow also more Dwarf French Beans and Broad Beans, also a small sowing of Carter's Matchless Cabbage. Keep up successional sowings of Spinach, Lettuce, Radish, and Salading as before advised. Chicory is a very useful-plant for salads in winter, and should be sown this month in drills, and thinned out to about six inches apart. Sow Green Curled, Mossy Green, and Batavian Endive the third week for first crop. Kohl Rabi should be sown early this month, also large purple Cardoon in trenches prepared the same as for Celery. Make another good sowing of Turnips, such as Stone, Orange Jelly, and Polley's Nonsuch. Plant out the earliest Brussels Sprouts and Savoy Cabbage: all the Brassica tribe, to be grown tender and fine, should be planted in well-mannered, deeply-trenched ground. Plant out more Cauliflowers and successions of Lettuce, also the earliest Celery as soon as it is ready, and see that its liberally watered. Prick up the soil between the rows of Potatoes, with a steel digging fork, previous to carthing; it is far better than hooing. Manure and trench up the ground intended for the main crops of Breccoli and Winter Greens.

Fruit Garden.

Disbudding wall-fruit trees will now be in full action, and is an operation so important that we would call particular attention to it; for, by following it up carefully and judiciously during this and next month, scarcely any winter pruning will be necessary, which is of great advantage, more particularly to stone fruits, which are in general so impatient of the knife: all over-luxuriant shoots should be timely and entirely removed, unless they are required for filling up blanks, in which case they must be kept stopped, so as to throw strength into the weaker branches; let this process of disbudding be followed at each manipulation by powerful syringings with the garden engine for the dislodgment of insects and cleansing the trees; clean soft water will answer for most purposes; but if aphides are numerous, a solution of tobacco water must be added. If the weather is dry, water and mulch newly planted fruit trees.

Flower Garden.

Early in this month commence planting the rooted runners of Ncapolitan, Russian, and Tree Violets, in beds previously prepared by the addition of fresh compost, at from seven to nine inches apart, and take care during the season to give them abundance of water: propagate also Spring-flowering plants, such as Alyssum, Iberis, Arabis, Wallflowers, and Arenarias, to be planted in the reserve garden when rooted. Sow a bed of German Asters and some Hardy Annuals in pots plunged in a shady place, for the purpose of filling up vacancies later in the season. The last week in the month will be the proper time to commence planting out the bedding-plants: begin with the hardiest and well-hardened plants, particularly Verbenas and Calecolarias, leaving the tenderer sorts, such as Heliotropes, Petunias, Salvias, and others likely to suffer even from a slight frost, until early next month. Towards the end of the month, when the plants are large enough, commence planting in the mixed borders the Tender Annuals mentioned last month; choose dull days for the operation, and water through a fine rose to settle the earth about the roots. Roses should now have plenty of liquid unanure and frequent syringings overhead. Rhododendrons, Azaleas, and other choice flowering shrubs, must be constantly watered in dry weather to secure a fine bloom. Keep Picotees and Carnations carefully tied to neat stakes, and protect choice Tulips from drenching rains.

Conservatory.

The great abundance of plants which will be in flower at this season will render this house very gay and attractive; great care should be used to keep everything very neat and clean, so that the enjoyment may be perfect. Insects at this season

must have incessant war waged against them, as this is their principal breeding time, and if they are allowed to accumulate, the consequences will be very serious. Examine the state of the borders in which the permanent plants are growing; and if it appear necessary, dig them over and remove some of the old soil, replacing it with fresh compost. Give Oranges and Camellias, as well as any other free-growing plants which require to be pushed on, an occasional dose of clear manure water. Guard against the ravages of the red spider by constantly syringing such plants as are liable to it, but be careful not to wet choice flowers.

Forcing House and Stove.

These two structures may now be merged into each other, as forcing flowers, properly so called, will be done with for some months, and the Forcing House will be called into requisition for relieving the Stove of numerous plants requiring more room. As growth is now very active, keep up a liberal supply of humidity in the atmosphere, with a brisk temperature, say 60° minimum at night and 80° maximum by day. Remove Gardenias in flower to the Conservatory. Shift Achimenes, Gesneras, and Gloxinias as they require it, and train out Achimenes to neat stakes as they make growth. See that Stephanotis, Allamanda, Mandevillea, Passiflora, Ipomæa, and other Stove climbers are properly trained out: cut out a portion of the wood if they get too crowded. Attend particularly to the welfare of young plants intended for Autumn and Winter blooming.

Orchid House.

Many of these are now in great beanty, and amply repay any amount of care that may be bestowed upon them. Shading during bright sunshine will now be imperative; persevere also in maintaining air moisture, particularly in the early part of the day; for if too much is used late in the afternoon, the coolness of the nights will cause it to condense rapidly, and if the drops fall on any of the choice flowers, they will become discoloured. Take down suspended baskets occasionally and dip them in water of the same temperature as the house; Dendrobiums, and other of the hardier sorts, may be placed in the Conservatory for some time; do not over-water plants with bulbs, approaching maturity.

Greenhouse.

Towards the end of the month, many of the New Holland and other hard-wooded Greenhouse plants that have done blooming may be removed to a sheltered situation out of doors; very choice specimens, however, particularly small-growing ones, must not be breught out at present, but kept growing on in pits, giving a free exposure in fine weather, but keeping on the lights when rainy, and shading from hot sun. Prick off sced-vessels from Azaleas as they go out of bloom; and if they require shifting, do it when they are making growth. Continue training out Pelargoniums, and give each plant as much room as possible; apply clear liquid manure at least once a week, and keep up a thorough ventilation. A good supply of Fuchsias must now be shifted, and grown on quickly for Autumn decoration. Place some lumps of fibrous loam around the base of the flower stems of the varieties of Lilium lancifolium, and give them a dose of liquid manure occasionally: the first week in the month get in cuttings of Chrysanthemums: the best plan is to take five or six cuttings of each sort and insert them around the edge of a three-inch pot in light saudy soil, placing the pets in a frame on a gentle heat and keeping them properly shaded until rooted.

Forcing Fruit Houses, Pineries.

As the Summer-fruiters will now be advancing fast, they must have no check for want of bottom heat and atmospheric moisture; to assist in swelling the root, let them have a moderate supply of liquid manure; keep the surface of the beds moist, and peur water about the fleors, &c. several times a day; keep the bottom heat at about \$5^\circ\$, the top heat may range about \$0^\circ\$, with a good supply of air when it rises higher. Shift succession plants according to the room there is to devoto to them; the most forward will be wanted for Antunan fruiting, and must be most encouraged: give due attention to the Black Jamaica and other sorts for Winter fruiting; keep up the stock by planting suckers as they come to hand.

Vineries.

As soon as the stoning process is over and the fruit begins to swell off for ripening, lessen the amount of air moisture and gradually inure the plants to a full current of air to assist the colouring process; and that this may be done more effectually, keep up good fires and leave a little air on at night. Finish thinning out the fruit of the general crops, and train out the branches to admit as much direct solar light as possible to the leaves; be careful to exclude sharp currents of cold air when the vines are in this state. Later houses must have a little fire heat to assist the development of perfectly-formed bunches and the setting of the fruit.

Peach House.

Whilst the fruit is swelling off, let there be uo want of water at the roots, or air moisture, but withhold it gradually as the ripening begins; and as this is the stage in which the red spider finds a genial atmosphere, remember to smear sulphur en the pipes when cool by way of prevention: keep the young wood well trained in, and the fruit exposed to the light; give the later houses abundance of air with fire heat, and continue the necessary processes of disbudding, thinning the fruit, and training; shut up early, and syringe abundantly. Cherrics in pots done bearing may be removed to a temporary protection and afterwards plunged in the open ground. Figs ripening fruit must have but little water at the roots, but do not let the atmosphere get too dry; persevere in stopping the young growth.

Pits and Frames.

Early in the month throw out the spaces intended for Ridge Cucumbers, fill them up with prepared dung and leaves, throw the soil back over it and sow the seed under hand-glasses,—the Steckwood and long Ridge for general purposes, and the short prickly for Girkins. Sow also more Vegetable Marrows. Keep the general crop of Melons and Cucumbers well thinned out at short intervals: if left too long, and then a grand thinning is made, a severe check frequently ensues. Shift Clulies and Capsicums and plant out Tomatoes at the end of the month.

JUNE.

Kitchen Garden.

Plant out now the main crop of Brussels Sprouts in very good ground; also Borecole, Chou de Milan, Broccoli, Cauliflowers, Cape and Walcheren Brocceli, Saveys a good breadth, Early Cabbage, and Cos Lettuce as fast as the ground becomes vacant and can be got ready for them: see that a good supply of manure is trenched in. Persevere in thinning out all advancing crops of Carrots, Turnips, Red Beet and Cabbage Lettuces, and do not neglect to keep the surface constantly stirred, not only to destroy weeds, but for the welfare of the crops: make again two sowings of Peas,—the first of Harrison's Glory, Perfection, and Auvergne; the last of Carter's Earliest and Dickson's Favourite: sow also more Turnips and Frouch Beans; also Scarlet Runners and Long-Pod Beans for the latest crop; also more Spinach, Lettuces of sorts, Radish twice, a few Early Horu Carrots for drawing in the autumn, and a few Onions for drawing young if required: make also another sowing of Endive for the main crops. Plant out a good breadth of Celery for the principal crops; let the trenches be well manured, and give the plants an abundance of water. Finish earthing up all the main crops of Potatocs. Train up and stop Tomatoes as they advance in growth, and give them some manure water occasionally.

Fruit Garden.

In this department, this is one of the busicst months in the year. Cherries, Pears, Plums, Vines, Peaches, Nectarines, Apricots, and Figs will all be claiming attention at once. Disbudding must be continued, the fruit judiciously thinned out; in the ease of stone fruits, a few more should be left than are quite necessary, in order to make up for those the tree will east in stoning, which, however, will not be many if the above operations have been gradually carried en as recommended in previous menths. Strawberry beds should be immediately mulched with some suitable material to keep the fruit clean; nice straight straw is undoubtedly the best, and short grass about the worst. Now is the time to apply to these beds some drenchings of stimulating liquid manure: attend also to the removal of runners; such as are required for the purpose of making new beds should be layered into four-inch pots and kept well watered; all other runners must be constantly removed. Thin out Gooseberries for bottling, and at the same time remove some of the strong luxuriant shoots from the interior of the trees; Currant trees also may be so treated with advantage; and let the ground under both be well mulched over with some of the cleanest of the long littery dung fresh from the stable, to keep the fruit on the lower branches clean. The old plan of spurring in the breast wood on the old Wall Pear trees ought to be exploded; we recommend, in preference, that it should all be completely broken out when in a young state, taking care, however, to train-in a few young shoots where there are vacancies, which will often produce abundance of fruit the secoud year. Persevere in following up with powerful syringing all disbudding and thinning operations.

Flower Garden.

As the season is now arrived in which it becomes an absolute necessity to get out the whole of the stock of bedding-plants, such things as Turban Ranuneulus, Hyacinths, and other bulbs which have been occupying the beds must be taken up at any sacrifice; they must therefore be very carefully lifted without injuring the foliage, and plunged in saud for a time before being exposed to dry for storing; the next thing is to give the beds a little fresh compost, and proceed with the planting. When all the bedding-out is done, let the surface of the beds be neatly levelled, and such as require it have the plants pegged down. Continue the planting-out of Tender Annuals: these are very useful in the mixed borders to supply the vacancies which are always occurring through the plants going out of bloom; take care that there is a reserve bed of these things to supply future vacancies of the kind. Patches of Annuals sown last month must be well thinned out; and more may be sown for later blooming. Plant in the mixed borders a good number of Cupbea platycentra and strigulosa; they come in so cheerful-looking late in the autumn. The propagation of Spring-flowering Herbaceous Plants must be finished off immediately. Pinks also, and Pausics, must now be propagated. About the middle of the month, sow Brempton, Queen, and Emperor Stocks, to stand through the winter. Finish off the planting of Duhlias, and keep them well watered. Continue to give Roses thorough syringings, unless just when they are in full bloom, and also repeated doses of liquid manure. Attend particularly to the destruction of weeds and insects, to the neatness of the borders and tying up all plants requiring support, to the finished appearance of edgings of all sorts, to the pruning away any luxuriant overgrowth in shrub or flower, to keeping grass well mown and gravel well rolled,—all of which, simple and obvious as they are, yet constitute the minutiae of enjoyable gardening.

Plant Houses, Conservatory.

Now will be seen the advantage of starting varieties of Achimenes early, as they will be highly conspicuous ornaments amongst the many beautiful objects which will now be concentrated in this structure, for the good of which, and also of the permanent plants, remove any large plants in pots or tubs to a sheltered place out of doors; this will allow a greater liberty in changing the arrangement of the flowering plants, as well as affording room for the concentration of all the best and gayest flowering plants in a situation where, as a whole, they are much more likely to be admired than when scattered here and there. Orango trees in tubs are at this season very liable to the attacks of insects of various kinds, which must be guarded against by constant syringing and occasional fumigation.

Stove.

Achimenes picta, started now in well-drained pots or shallow pans, will be found a very useful plant for winter flowering; other varieties of Achimenes, started late, may now be shifted, and grown on freely for the Autumn. If the heat of the bark bed is declining, fresben it up by the addition of some well-sweetened new material. Give a good supply of liquid manuro to all fast-growing plants, such as Allamanda, Alpinia, Aristolochia, Clerodendrons, Hidychium, and Stephanotis.

Guard well against insects, such as Thrips, Red Spider, and Aphides; keep them down by the persevering use of fumigation and syringing. Choice Gloxinias and Gesneras may now be readily propagated, the former from leaves, the latter from cuttings; the brisk heat of a dung-bed frame is the best medium for the purpose. Pot-off seedling Gloxinias, and encourage a liberal growth by heat and atmospheric moisture; be sure that this house is not overcrowded; there will now be plenty of room in other structures to take superfluous plants into; keep up a gentle fire-heat, more or less according to the state of the weather.

Orchid House.

But little can be added to previous directions: the temperature must be regulated by external conditions; fire-heat will generally only be necessary at night and on dull cold days. Shading must be applied during bright days, particularly after a series of dull cloudy days, as the plants are then much more susceptible of injury. Give water at the roots freely to all plants in an active state of growth, but gradually withhold it from such as are approaching maturity: this will be the case with some of the Dendrobiums; and they should be removed to a cooler place; such as are placed in the Conservatory for a short time will require less water.

Greenhouse.

The early forced Azaleæ indieæ will now have made their growth, and should be removed to a cold pit; let them have a free circulation of air night and day, but shade from hot sun. Large specimens of most kinds of hard-wooded greenhouse plants will be better placed in a sheltered spot out of doors, but tilt them on one side during heavy rains. The young growing stock, on the contrary, of such things as Boronias, Croweas, Chorozemas, &c., must be retained in pits or cold frames, and encouraged to grow by an occasional gentle syringing and a partial closing of the lights. Attend to the young growing stock of Heaths, and give them another shift towards the end of the month. Stop all luxuriant growth in time. Give abundance of air to winter-flowering Heatbs and Epacris, which should now be making good growth, and gradually inure them to a full exposure. Chinese Primroses, for winter and spring decoration, must now receive particular attention; the young seedlings should now be potted into three-inch pots; place them in a cold pit near the glass, and give them a free circulation of air, with shade from powerful sun. The double varieties are more tender in their constitution; they should now be starting into a fresh growth, and may be shifted according to their strength; but they will not bear overpotting; place them in a cold pit, and give abundance of air to dispel damp, and equalize the temperature by shading from hot sun; damp and drip are very injurious. Continue previous directions for Calecolarias, also the training-out of Pelargoniums, and supply both with liquid manure when in full growth. The remaining stock of Fuehsias for this season's bloom should now have their final shift. Give the Annuals for the Conservatory their final shift, and grow them ou as fast as possible. The Chrysanthemum cuttings will now be well rooted, and must be potted off immediately and placed in a frame with gentle bottom heat until they have rooted out; let them have a free circulation of air; and at the slightest appearance of mild

Forcing Fruit Houses, Pineries.

Plants ripening fruit will require a high temperature, with a free circulation of air and full admission of light; let the swelling fruit be assisted with occasional supplies of liquid manure. The state of the plants intended for Autumn fruiting must now claim attention; if the necessary shiftings have been attended to, as so often directed, they should now be showing fruit; and if not, keep them rather drier at the root for a time, which will generally prove ellectual: give to such as require it a larger pot, and place them in their final fruiting place: look to the stock intended for late Winter and Spring supply; shift such as require it, and keep them in a free-growing state by the liberal application of air and root-moisture. Pay constant attention to the state of the young successions, and shift them as they require it: also keep up the stock of young suckers.

Vineries.

The fruit in the early house will now be ripe and in use; see that abundance of air is supplied, and keep all laterals well stopped; fermenting materials may be partially removed from the outside—do not take them all away at once. The later houses will now require constant attention. Muscats will require fire-heat during the time they are in bloom, as they will not set well under a temperature of 70°; indeed fire-heat will be of use to all the late crops during their blooming stage, particularly if the weather is dull and cold; do not neglect the thinning in time—it is more necessary than ever for late grapes, as they have to hang so long on the trees, and must be considerably more thinned than is necessary for early ones: persevere in keeping up a growing atmosphere, and attend to training and stepping.

Peach House.

Continue to pay attention to training-in the shoots; and as the fruit will now be ripe, or nearly so, water at the roots must be discontinued, and the atmosphere be kept mederately dry, yet not so much as to increase the development of the red spider—for the prevention of which, use sulphur as before directed. Centiune the application of moisture both to the atmosphere and the roots in the later houses, and follow up perseveringly all the former directions with regard to disbudding and thinning, and the extirpation of insects. The first erop of fruit on the Figs will now be ripe; and as soon as it is gathered, the second crop will claim attention; prick up the borders, add a little fresh compost if necessary, and apply a good soaking of water; tep-dress the pot-plants, and give liquid manure; syringe the whole abundantly, and give abundance of air in the morning—but shut up early and syringe; thin the fruit if too thick, and attend to stopping young shoots.

Pits and Frames.

Still continue to keep up a brisk growing heat by the addition of fresh linings to Melons and Cueumbers. In every stage a nice bottom heat is essential; the top can always be regulated by sbading and giving air. Continue to earth up advancing crops. Ridge out mere for succession; and if Melons are required very late, and there is a hot-water pit, more seed may be sown; they will ripen in October. Make up Mushroom beds.

JULY.

Kitchen Garden.

Let there be now no delay in getting in the main crops of Broccoli, Winter Greens and Celery, if not done as recommended last month: plant out also a good bed of June-sown Cabbage: strew some salt over Asparagus and Sea Kale beds in moist weather; the former will also benefit by the application of guano water: keep up successional sowings of Lettuce, Radish, Spinach, and Turnip; also another sowing of Endive for the main crops: examine the state of growing crops generally; apply water wherever necessary, particularly to Celery; keep the earth constantly stirred about, and woods destroyed: nail up Tomatoos: sow a little more Cubbage for succession; this plan is far better than that of letting the old beds stand for a second crop of "Sprouts" as they are called,—it weakens the ground too much: one more sowing of Peas may be made for the chance of a crop, but they must have good ground, be kept well watered, and when well up, the ground should be mulched on each side of the rows.

Fruit Garden.

Follow out previous directions with regard to the removal of superfluous wood, nailing and syringing powerfully Wall-fruit Trees of all sorts. Protect Cherries from birds: half-inch mesh netting is the cheapest in the end; pay particular attention to the stopping of Figs. Thin-out the fruit of choice kinds of Penrs when they have set too thickly, taking eare to remove all deformed fruit. Thin-out the young canes of Raspberries, and secure them from winds. Fruit trees now swelling their fruit, such as Phums, Apricots, Peaches and Nectarines, and newly planted ones in particular, will be all the better for copious waterings, if the weather is dry. Do not forget last month's directions with regard to Strawborries, whether for forcing or beds.

Flower Garden.

Bedded-out plants will now be started off into full growth, and will require to be trained out and nicely pegged down as they advance. The borders in the mixed-flower garden will require to be kept up to the extreme of nothess, by staking and tying the plants as they require it, hoeing and raking the borders at short intervals, particularly after heavy rains, and clearing away all old flower stems and decaying leaves. As Roses will now be objects of great attraction, they must have corresponding attention paid to them: nothing tends more to prolong the Summer bloom than a constant supply of water and liquid manure; dead flowers and insects must be constantly removed by handpicking; and when the bloom is over, use the syringe thoroughly. Lose no time in getting a good stock of Cloves, Picotees, and Carnations layered. Prick out Brompton and Queen Stocks into Nursery beds; see that beds of Violets do not want for water. Towards the end of the month put in a few hand lights of choice Verbena cuttings on a south border, which will make fine plants to pot in September, and supply any number of cuttings in the Spring. The propagation of any choice kinds of bedding plants when the stock is short may be commenced at once and followed up as fast as cuttings can be procured. Stake Hollyhocks and Dalhius in timo, also Salvias, Phloxes, Asters, and other autunnal-blooming plants. Pick off the seed-vessels from Rhododendrons and Azalcas; and if the weather is dry, let them have copious supplies of water. Clip box edgings, also Yew, Thorn, and Laurel hedges; go over the Shrubberies and reduce any over-luxuriant growth.

Plant Houses, Conservatory.

The plants in this structure which are not in bloom will be benefited by copious syringing every evening. The floors, the borders, and other vacant parts of the house should be saturated with water daily during very hot weather. Continuo to apply liquid manure to strong growing plants, and train out Manuevillea, Passitlora, Lapageria, and other climbing plants as they advance. Shade from powerful sun, ventilate very freely during the day, and also leave on a little air all night. Assist the display by continuing to bring forward the main stock of Achimenes, Gloxinias, and the earliest Balsams; see that the other Annuals in pots are in a forward state of preparation, as they will soon be in requisition.

Stove.

This house should now be gay with Ixora, Echites, Allamanda, Stephanotis, Dipladenia, and Clerodendrons, all of which will at present require only the usual routine of watering and keeping down insects; maintain a moist atmosphere, and syringe often where practicable, but beware of spotting the flowers; soft-wooded and free-growing sorts may have diluted liquid manure twice a week. Give the plants intended for winter blooming a shift if they require it; as most of them will be getting too large to remain in the dung-bed frame, they should now be removed here; and any old plants of the same sorts now starting into a fresh growth may be pruned into shape and shifted according to their requirements.

Greenhouse.

Hard-wooded plants of most sorts still requiring a shift must be attended to immediately; those which, having been shifted some time back, have made thin growth, should now be exposed to all but the most powerful sun in order to harden the tissues and induce a free-flowering habit; most of the large plants of Chinese and Indian Azaleas may have nearly free exposure to the sun, but should be protected from heavy rains. This is a good time, when water requires to be given so often and abundantly, to ascertain the state of the drainage, and if defective to remedy it; for no plant with a defective drainage can ever be safely wintered. Look to the state of young specimen plants in cold pits, keep them more shaded than older plants, at the same time let them be sufficiently exposed to harden the growth and prevent drawing; most of the foregoing remarks will apply to Heaths, young plants of which growing into specimens should have their final shift for the season; and see that they are well trained down and luxuriant growth stopped; observe that most kinds of hard-wooded plants are now advancing towards a state of rest, and the tendency of all operations connected with them should be to ripen the wood and produce maturity of growth.

Pelargoniums which are past flowering should be placed out of doors in a situation exposed to the full sun and very little water given; this will thoroughly ripen the wood and throw them into a dormant state, when they may be closely headed back. Encourage the growth of the later stock for Autumn blooming, expose them to the influence of the sun, but give them plenty of water and liquid manure. Give the seedling plants of Chinese Primroses another shift and plenty of room in a cold pit, shade from hot sun, and be sure that the drainage is perfect. Cincrarius which are past blooming should have the tops cut off and be placed out of deers on coal ashes to form another crop of suckers. The best-impregnated Calceolaria seed may now be sown in shallow pans and kept in a very cool place in a pit; this plan of sowing early and getting good plants established in pots before Winter, is very preferable to keeping old plants; seedlings are invariably more healthy and robust in labit, and if carefully impregnated they will produce very effective plants for decorative purposes, although perhaps not up to the Florist's mark of perfection. The present is a good time to go over the stock of Pot Camellias; give a shift to such as require it, but never a large one, as they are better with the roots rather eramped than otherwise: it is very important that the drainage should be perfect.

Forcing Fruit Houses, Pineries.

Every advantage should now be taken of the lengths of the days and nights, to induce a rebust, healthy, and hardy habit of growth, to ensure which ventilate freely, but shut up early. Continue the application of liquid manure to the swelling fruiters, also to successions, and observe that the chances of good fruit for another season will depend upon the attention paid to succession plants now; keep them growing freely in a liberal bottom heat and a moist atmosphere, and attend to shifting such as require it; observe also that with regard to ripening off the fruit, it is not well to push it too fast, for the slower the process the better the flavour; and any attempt to hasten it by keeping up a very high temperature and too much dryness at the root, will not only lessen the weight of the fruit, but the saccharine secretions will be partly acidified, and the flavour very much deteriorated.

Vineries.

This will generally be the best month for ripening off the wood in early houses, from which the fruit is cut, or nearly so; remove gradually all the late growths, and give air with freedom both day and night: it will very much assist this process if some means can be adopted to throw off heavy rains from the borders (if outside) by the use of tarpaulin. Centinue stopping the laterals und superfluous wood in the later houses, and give the berries a final thinning; do not be afraid of a little five-heat at this stage, as they will keep all the better by-and-by; apply liquid manner to the borders.

Peach House.

As soon as the fruit is all gathered, which will be towards the end of the month, let a little extra attention be given to get the wood thoroughly ripened; give the trees a good syringing after the fruit is off, and repeat it as often as is necessary to keep down the red spider, but do not water at the roots, as that would probably induce a fresh growth, which is by no means desirable; let them have thorough ventilation day and night. The second crop of Figs should now be swelling fast; let them have plenty of water at the roots, shut up early and syringe freely, continue stopping the young growth. Strawberries for next year's forcing will now require great attention; it they were layered into pots as advised for beds last month, the strongest should be selected and potted at once into six-inch pots; place them in an open situation fully exposed to the sun, but on a cool bottom; give them frequent applications of soap-suds alternately with water, and occasionally liquid manure: continue to lay more runners into small pots as they become ready.

Pits and Frames.

Pay attention to the bottom heat; for late Melons and Cucumbers should be kept at about 75°; keep them well thinned ont, stop constantly and shade during hot sun; observe Melons ripening fruit must not be shaded: look to the state of young plants required to take the place of such as are past bearing, and give them a shift into a larger pot if the places are not immediately vacant. Tilt up the glasses over Ridge Cucumbers, and begin to train the shoots outside; let them ramble without stopping: both these and Vegetable Marrow must be abundantly watered.

AUGUST.

Kitchen Garden.

The first week in this month is the proper time to sow a good bed of Prickly Spinach for Winter supply; also towards the end of the month sow American Cress for Winter and Spring salading. Sow Canlidower for hand-glasses and Winter storing within a few days of the 25th of the month; the best sorts are Carter's dwarf Manmoth, New Giant, and Walcheren: sow also Bath Cos and Hardy Cabbage Lettuce to stand the Winter, also large Tripoli Onion for early Spring supply. Keep up successional sowings of Radishes and small salading, according to the demand; also make another sowing of Endive for succession. As the crops of Pens are cleared from the ground, room will be found for planting successions of Celery. Plant out a good stock of Bath Cos and other sorts of Lettuce. As soon as the first sown Endive is large enough, plant out a good bed. The ground from which Early Potatoes have been cleared should be planted with late Savoys, Coleworts, and Asparagns Kale; a portion of it should also be sown with Turnips for late crops. Remove the flower steus from Articlockes as fast as they are cut, in order to strengthen the roots. Continue to earth up Celery, and see that it does not want for water and liquid manure; a little salt mixed with the water is a good thing, both for the plants and to drive away worms and snails.

Fruit Garden.

Continue nailing in the young wood of Wall-fruit trees in general; the strong shoots of Peaches and Nectarines, which at this time throw out a great many laterals, may be stopped with great advantage at the lowest lateral, which should then be trained on as a leader: this is also a good time to complete the removal of all superfluous wood not likely to be wanted another season; be careful of the foliage, as upon its retention and healthy growth the maturation of the fruit bud depends. Protect Morello Cherries, Warrington Gooseberries, and Red and White Currants from birds; the clastic hexagon netting is

the best medium, as it also excludes wasps and admits air and light: the best method of securing it to the wall is to use the broad Irish tape all round the outside, through which to pass the nails, which will preserve the net from tearing; it is also an excellent covering for Penches and Nectarines, and indeed of all fruits where wasps are troublesome. Mice and small birds, which are now getting very destructive to choice Pears and Figs, should be trapped. Beds of Strawberries should now be planted without delay from those which were layered in pots for the purpose; keep the crowns well up above the surface of the soil, so that they may have full exposure to the sun, which is the principal means of inducing the formation of strong fruit buds.

Flower Garden.

Operations in this department for this month are principally routinal, such as watering, staking, tying, and in fact all the operations which have a thorough neatness in view; bedding plants of all sorts should now be in very great beauty, and it is the proper time to determine on any different arrangement of colour which may be thought desirable for another season. The tall varieties of Lobelias will be very much benefited by frequent and copious applications of liquid manure, so also will the beds of Cannas. Give plants of Pampas Grass frequent doses of liquid manure, and water alternately if the weather is dry. Propagation for the wants of another season must now be commenced, particularly of such sorts as do not root freely; for unless they get pretty well rooted before Winter, they are often difficult to preserve. Attend strictly to the routine of mowing, sweeping, and rolling, and to keeping the edges of all well defined; indeed perfect order and a finished appearance are quite as essential to the enjoyment of a garden as beautiful flowers and superior cultivation.

Plant Houses, Conservatory.

As it is generally desirable to keep up a display of bloom in this house, even at this season when the out-door display is at its height, we shall find the advantage of having a good supply of well-grown Annuals in pots to fall back upon, for in a Conservatory of any pretensions, however largely we may draw upon the Stove and Orchid House, there will be many places to be filled up for which such plants are very suitable, and as their value is practically known, we have all along advised a proper attention being paid to them. Ferus in pots in the shady parts of the house are another very useful tribe of plants, and are invariably objects of great attraction. The Fuchsias, if treated as before directed, will now be advancing fast into a good bloom, and must be drafted into this house as they become ready. Oxalis Bowci, grown in pots, is a very fine object just now in the Conservatory. Tea-scented Roses form another additional attraction. Continue the routine of training out climbing plants, but do not now cut them in, as a rambling growth is favourable to blooming. Air, water, and syringe, as before advised.

Stove.

Examine frequently the state of the roots of the plants intended for Winter flowering, and if necessary give them a shift into blooming pots, and keep them growing on freely; fire heat must be regulated by the state of the weather, but it is best not to be too chary in its application, as plenty of air can be given in sudden changes of temperature, and this is calculated to do good rather than harm. Plants which are advancing towards maturity should be assisted into a dormant state by a gradual lessening of the quantity of water, a free circulation of air to harden the growth, and a drier atmosphere. Attend constantly to the destruction of insects, or they will be very troublesome in the Winter. Keep Passifloras and other climbing plants neatly tied in, so as not to obstruct the light too much.

Orchid House.

Many of these, such as Dendrobiums and Epidendrums, will have matured their growth, and must be removed to a cooler temperature and drier atmosphere, in order to induce a state of rest. Continue to dip the baskets and more portable of the blocks in tepid water every week, as formerly advised, and use the syringe liberally to such as are not so easily moved, and indeed to growing plants generally, such as Lælias, Huntleyas, Barkerias, &c., which should be kept growing liberally by a high temperature and moist atmosphere; but at the same time air liberally when possible, and keep the houses well saturated with water.

Greenhouse.

Some of the early forced Indian Azaleas will have set their bloom buds, and the wood will also be ripened, if they have been pretty well exposed; and therefore they may be removed into the Greenhouse towards the end of the month, taking care that the foliage is quite dry when they are housed; the same remarks will apply to the early forced Camellias, which should be housed at once; the later stock of both sorts must still be exposed out of doors, as before directed. Heaths in all stages of growth should now be standing in cold pits; such as have been recently cut in after flowering should be kept rather closer, and shaded when necessary; but when growth commences, let them have free exposure in favourable weather in common with the general stock; hard-wooded greenhouse plants, in general, will require all the exposure which a due regard to their several habits will allow during this month, in order to harden the growth, and induce a flowering habit. Pelargoniums which have been headed back, as advised last month, will now have broken again pretty freely, and should be shaken out of the soil and re-potted into pots of such size as will just contain the roots conveniently; place them in a frame or pit, keeping them shaded for a short time, but not watering too freely. Observe that this batch will be required to make a strong healthy growth before the winter season of rest, therefore regulate their treatment accordingly. As soon as the Cinerarias have formed their suckers, and begun a new growth, shake them out, and divide the roots; pot the best into four-incli pots, and place them in a cold frame near the glass; shade them as required; sow the seed of choice varieties: observe, this sowing will be a very useful one. Chrysanthemums must now be immediately shifted into blooming pots, and as soon as they are rooted through let them be liberally supplied with diluted liquid manure; give them plenty of room, and still apply sulphur for mildew. This is the time to look to the state of Hardy Plants for forcing purposes

lancifolium will now be expanding beautifully, and should be immediately transferred to the Conservatory. The compost heaps of all sorts should be sometimes turned about to get sun-baked, and brought into good condition for Autumn and Winter potting; also now is the time to eart in a fresh supply: serub and wash dirty pots, and store them away for future use.

Forcing Fruit House, Pineries.

If it is not already done, it is now quito time to give a final shift into fruiting pots of all the best successions for early fruiting next season; be sure that the drainage is perfect, and make a liberal use of rough lumps of charcoal, both amongst the drainage and also amongst the compost; the bed will require to be renovated by the addition of fresh material and thoroughly turning over; be careful to watch how the bottom heat works, as it sometimes gets too high after this operation; a range of 80° as a medium will be quite enough. Keep up a good supply of atmospheric moisture, and abundance of air when the weather is right. Use great caution in syringing where plants are fruiting, so as not to wot the young fruit just setting. Remove all suckers from fruiting plants, with the exception of such as will be required for keeping up the stock.

Vineries.

Assist the late vines with a little fire heat, to perfect the fruit and ripen the wood; stop all superfluous growth, and give them plenty of ventilation; see that the roots do not want for water up to the colouring-point; after that keep the border dry. Continue to cut out mouldy herries, and if wasps are now troublesome, uail the elastic hexagon netting over all the ventilators, using broad tape round the edges, as before advised.

Peach Houses

The principal operations here will be confined to such as tend toward ripening the wood, which must be secured by a constant and free ventilation; he sure that the borders are kept dry, so as not to induce a second growth. Continue the application of water and liquid manure to Figs, now swelling the fruit, but only up to the ripening point, when, to secure flavour, they must be kept dry.

Pits and Frames.

Keep a large supply of good fermenting materials in a constant course of preparation, for the formation of new beds and for keeping up the heat of the liuings to late Cucumber and Melon frames. Prepare also materials for successional beds of Mushrooms; spawn such as are ready: this should be done at a temperature of 80°. See that the beds do not want for water, and, when necessary, give a good seaking, but do not be always dribbling a little at a time, as it only rots off the young Mushrooms.

SEPTEMBER.

Kitchen Garden.

The harvesting of the general erops of Onions will now claim attention as soon as they are ready to pull up, which may be ascertained by trying a few: let them be carefully lifted and laid out to harvest under cover of a shed, if it is in a wet time. When the ground is cleared, let it be well manured and trenched in preparatory to planting with Cabbagos, to stand through the winter. Thin out the Spinach sown last month, leaving the plants six inches apart, and stirring the surface after thinning. Earth up all advancing crops of Broccoli, Winter Greens, and Cabbages; also continue the earthing of Celery when the foliage is quite dry. The up Endive and Lettnee to blanch, and transplant Endive twice this month—in the beginning for the principal supply, and at the end for late crops. Prick out Cauliflowers into nursery beds to strengthen them for the hand-glasses; keep up the sowing of Radish and small salading.

Fruit Garden.

Next month is the proper time to make new plantations of Fruit Trees, and it will conduce very much to their well-doing if the stations can be prepared this mouth, so that the ground may settle a little before planting: the first great essential is therough drainage, the next to have the necessary composts in good condition, that is, well acrated and incorporated; throw up a good-sized mound, as the trees should be planted generally above the level. Trees which have a rampant, luxuriant, and unfruitful growth, may be root-pruned by the end of the month; this root-pruning is a very useful help to the fruit-cultivator, and is applicable to all strong growing Fruit Trees. When the fruit is all taken from the Peach and Nectarine trees, give them a good syringing, and if at all mildewed, dust them with sulphur while moist. Remove runners and weeds from Strawberry beds, but do not cut off the old foliago; prick up the spaces between the plants lightly with a fork: keep down weeds, and stir the soil amongst the newly-planted beds. Put in cutting of Currants and Gooscherries as soon as the leaves turn colour.

Flower Garden.

Towards the end of this month or the beginning of next, sow Hardy Annuals to stand through the winter; the following may be safely recommended:—Nemophila discoidalis, insignis, and maculata; Gilia achilliafolia and tricolor; Clarkia pulchella and alba; Platystemon californicus; Erysimum Perowskianum; Godetia tenella, Lindleyana, and ruhicunda; Collinsia verna, tricolor, multicolor, and bartsixfolia; Linmanthes Douglasi; Bartonia aurea; Callichroa platyglossa; Silene compacta; Virginian Stock; Lupinus nanus; Cyamus; Eucharidium grandiflorum; Sanvitalia procumbens; Eschscholtzia crocea aud californica, and Leptosiphon androsaccus: with the above a great display may be made in the Spring. Autumn-flowering Roses must be supplied with liquid manure. Commence the planting of Narcissus, Crocus, Anemones and Aconites as soou as the places are vacant. Stake and fasten securely Salvias, Dablias, Asters and other Autunn-flowering plants. Get in a good stock of cuttings of free-rooting bedding plants in store pots to stand through the Winter. Prepare heds for Pansics. Plant out Pinks: pot off rooted layers of Picotee and Carnatiou, and plant the rest in nursery beds. Pick off dead seed-vessels from Scarlet Geraniums and Verhenas, and indeed try and make the most of all the late bloom by the constant removal of unsightly refuse, and attention to neatness.

Plant House, Conservatory.

The operations of this month in this department will not materially differ from the last. Every exertion must be

made to keep this house interesting and gay by concentrating all the blooming plants from the other structures. Air must be given very freely in order to harden and ripen the wood of the permanent plants; the application of liquid manure to the plants in the borders should be discontinued as soon as the growth is made, and water generally not so liberally given. Let the house be thoroughly cleared, and the whole of the plants gone over and placed in first-rate condition previous to bringing in the plants which were turned out in June. See that the hot-water apparatus in every department is in good working order; get the flues cleaned out, all defects remedied, and in readiness for the Winter's work.

Forcing House.

As this will very soon be required again for forcing flowers, it will be as well to take an early opportunity to get it thoroughly repaired and cleaned, and otherwise get in readiness.

Stove.

Ixoras past flowering should now be cut in without loss of time, and started again in a brisk bottom heat and growing atmosphere; a dung bed is the best if it can be had. Achimenes, as they go out of flower, should be removed into an empty Vinery and water entirely withheld, so as to induce entire rest to the plant and to mature the roots; when thoroughly dry and ripe, store them away in any dry place where frost cannot penetrate. Achimenes pieta, Gesnera zebrina and clongata must be grown on in a brisk heat, and they will continue to bloom for a long time. Regulate the climbing plants, which as they go out of flower should be greatly reduced and neatly tied in, so as to offer no obstruction to the light.

Orchid House.

The temperature in this structure should now be reduced a little, to innro the plants gradually to a lower temperature: such as are past flower and are going to rest must be kept moderately dry and in a cooler temperature; but growing plants must still have a warm and moist atmosphere, and attention paid to watering, syringing, and dipping as before directed: shading will not be necessary, unless on very bright days; but air should be liberally supplied in fine weather, particularly to the dormant portion of the stock. Remove Cypripedium insigne and barbatum to the Conservatory, where they will bloom for a long time.

Greenhouse.

Continue to pay strict attention to following up all the necessary means required for maturing the wood of all hardwooded plants approaching the dormant state, and indeed, as Winter is now approaching, oven the growing stock must have more air and exposure, to harden the tissues and induce a hardy, stocky growth; if any appear to require it, they may still be shifted, but be careful in the after-treatment, particularly as to watering. Calceolarias and Cinerarias, also Chinese Primroses, will now be coming into full action and must have their wants especially attended to, by a constant shifting of the earliest plants as they become ready; and a large supply of successional plants in different stages of growth kept steadily progressing. Pay particular attention to fumigation. Continue to head down the later stock of Pelargoniums as the wood becomes ripened; and if not already done, shako out and re-pot those headed back last month: now is a time to get in a good stock of cuttings of choice roots. Chrysanthemums may still be shifted into larger pots if required, and continue the application of liquid manure to such as have the pots full of roots; they will still require to be staked and tied out neatly. Mignonette for pots should be sown immediately, and placed in a cold frame or pit; when up, give plenty of light and air. Pot the tubercus-rooted Tropacolums in blooming-pots according to their size, as they will not bear shifting. Pot a large supply of the strongest plants of Violets from the beds made in May. As the Japan Lilies go out of flower, let the pots be laid on one side out of doors. The stock of Amaryllis being now dormant, it is a good time to shake them out of the soil and re-pot at once; but if they have only been potted one year, surface-dressing is enough, as they only require shaking out every two years. Look now to the timely purchase of your Dutch Bulbs; the earliest customers get the freshest roots, and, as a frequent consequence, have finer blooms. Divide your stock into two lots; put one by i

Forcing Fruit Houses, Pineries.

As the season is now advanced, all plants requiring it should be forwarded a stage by shifting for the last time this season, and, with the other successions, be kept growing freely by a liberal temperature both at bottom and at top; but at the same time give plenty of air at every favourable opportunity early in the morning, and shut up early with solar heat to save fireheat. As it is desirable to harden the growth as much as possible, endeavour to imitate natural conditions by a lower temperature at night, so that whatever growth is made may be formed under those conditions of light and shade so essential to perfect development. Six and water the surface of the beds, and keep up a growing temperature for the Antumn fruiters; give liquid mamner to such as are swelling off: bottom heat for fruiters should still range about 85°.

Vineries.

These in their various stages will require constant care; the very earliest, to be started in November, ought to be pruned at once and a thorough circulation of air allowed. Those which are to be started in January will at this time make great efforts to throw out an Autumn growth, which must be constantly checked by stopping; at the same time all the side laterals may be entirely removed, to throw more light upon the main leaves; the greatest enemy to the late houses carrying fruit is a damp atmosphere, so that in dull wet weather, fires must be lighted to dispel it, taking care to give plenty of air with it, or else the berries will shrivel: keep the mouldy berries constantly removed.

Peach Houses.

Trees in the earliest house which have matured their wood should be divested of their foliage and loosened from the

trellis, and an early opportunity taken to dress them over with the mixture formerly recommended. The trees in the later houses will most likely be still green and perhaps making some attempts at late growth, which must be timely checked by stopping and keeping them dry at the roots. Cherries in pots for early forcing now standing plunged in the open quarters must be attended to at this season. Turn them out of the pots and shake off a good part of the old soil, and repot in sound fresh loam and re-plunge for a time; but before they are required for forcing, let them have a few weeks in a pit, that the buds may swell gradually. Now is a good time to take up and pot any promising young trees, full of buds, from the open quarters; such trees will often produce a better erop than those specially prepared for forcing. Figs now ripening their second crop must have no more water, both for the flavour of the fruit and that the trees may be encouraged to ripen off their wood.

Pits and Frames.

Great eave must be used to maintain a brisk bottom heat to Cucumbers in bearing and growing on for winter supply: if dependent on fermenting materials, keep a good supply always in a state of preparation, and never use it until well sweetened: keep also a good heat to late Melons, but let the atmosphere be dry, or the flavour will be poor: make new beds on the shelves of the Mushroom house, and spawn the beds made out of doors; prepare materials for future beds. Throw up a bed in readiness for Asparagus next month, if required thus early.

OCTOBER.

Kitchen Garden.

It will be as well to observe that the earliest Endive already tied up for blanching will not bear much frost, or a long continuance of wet weather; therefore when quite dry, let them be taken up and planted thickly in a frame or cold pit, and keep the lights always on in wet weather, but let them have abundance of air and free exposure on line days; the same remarks will apply to late Antunu Lettace, the season for which will be very much prolonged by the above rontine. Plant out a good breadth of Lettuce in a warm and sheltered situation to stand through the winter; a row planted within a foot of the base of a south wall, will in ordinary seasons be ready for use a week or so before the others: the ground hitherto occupied by the main crops of Scarlet Rumers will afford a suitable piece of ground on which to plant Canliflowers under handlights; let the ground be thoroughly trenched two spits deep, and as the operation proceeds, incorporate a liberal dressing of good rotten manure: level the surface and mark out beds of three feet wide for the glasses, and spaces of two feet wide to walk upon, for the purpose of giving air, dressing, &c.; from centre to centre of each glass four feet; put five plants to each glass, and look out for smils, which must be kept down by a mixture of soot, lime and ashes, strewed over dry. Take up and store Carrats and Red Beet; clear off and clean Asparagus beds: remove a part of the top soil and supply its place with well-rotted, rich manure. Persevere in trenching up all vacant ground to subject it to atmospheric influences.

Fruit Garden.

The gathering in of Apples and Pears must now have daily attention; let the greatest care be taken in gathering all the choice sorts; as soon as they part from the stems freely, they are ready; if gathered before, they will shrivel: use them us carefully as eggs, and do not heap too many together, for the weight of the upper portion will bruise the lower, particularly in carrying along to the fruit-room, and all bruises, however slight, cause incipient decay. Finish the gathering of Cob Nuts, and store them in a dry, cool place. Also gather Walnuts as soon as they leave the husks pretty freely; if taken too soon, they often get discoloured in cleaning out. This is the best mouth to make new plantations of fruit-trees of all sorts; as soon as the leaves come off freely from the trees, they are ready to be lifted and transplanted immediately, and where previous directions have been attended to, the stations will all be ready and the operations may be performed without delay—to defer it until next month is to lose a season; trees carefully planted in October do not require to be headed back; but may be pruned precisely as though they had been planted twelve months.

Flower Garden.

As the season of beauty is now over for most of the bedding plants, towards the middle of the month begin to take up Saarlet Geraniuus, Heliotropes, and such like plants which are required for storing; take up as many as there can possibly be found room for, as old plants will always be found to flower earlier and more abundantly than young cutting plants; and if you can begin early enough, you will be able to head them down close, and after potting them in pots just large enough to hold the roots, and in light soil rather sandy than otherwise, put them into a large pit near the glass and give them for a short time a gentle heat to start them afresh, and then gradually expose them to harden, when they may be placed on shelves and other vacant places in the greenhouse. When all the principal beds are cleared, let them be immediately prepared for the reception of bulbous plants, such as Narcissus, Hyacinths, Turban Ramuendus and Tulips, and let the whole of them be edged with Crocus of various colours; some may also be lilled with Spring-thowering herbaceous plants, such as Viola arborea, Primroses, Polyanthus, Alyssum, Iberis, Aubrictia, and Arabis, all of which will help to keep up a gay appearance in early Spring, and will mostly be over before the beds will be again required for bedding plants: some of the larger beds may be filled with nice dwarf plants of the hardier Evergreens; common Rhododeudrous, which may be moved any day in the year, are very suitable for the purpose. Many kinds of herbaceous plants may now be taken up, divided, and replanted; it is far better than doing it in the Spring; amongst them do not forget those useful plants, the Double Rockets, both purple and white: they should be lifted annually about the first week in the month and replanted in fresh situations. Alterations which involve planting Trees and Shrubs should be set about vigorously: every Tree and Shrub planted this month will stand in a far better position as to its well-doing than those planted during any other month in the

Plant Houses, Conservatory.

Previous to bringing in the plants which were turned out of this house in June, let the whole of the permanent plants have a thorough revision, some praned and trained, some cut back, all thoroughly cleaned and put into first-rate condition, then fork over the borders, top-dress where necessary; then after top-dressing and cleaning the pots out of doors, place them in their allotted positious. Look to the state of the glass both of roof and sides, and let it be well cleaned: of course such things as painting and glazing have been properly attended to; for be assured, if houses drip to any extent, no choice plants can be preserved in them. Chrysanthemuns will form the chief attraction in this structure for some time to come; the early varieties will now be sufficiently in flower and may be brought in at once, and the main stock should be removed under glass—an empty Vinery for example, and the best selected as they expand, may be brought into this house.

Forcing House.

This will now be brought into requisition for many purposes, and will require to have a tolerably brisk heat kept up; some of the winter-blooming Stove plants will most likely require rather more heat and atmospheric moisture than may be wanted in the Stove; they may therefore be brought into bloom here, and then removed to the Stove or Conservatory as they may be required. Introduce a plant or two of the early forced Camellias, also of Salvia splendens and gesneriflora. The first batch of Hyacinths, Narcissus, and Tulips, as soon as the pots are filled with roots and the bulbs are started, may be placed on shelves near the glass in this structure.

Stove.

The Spring-struck entrings of Eranthemum, Justicia, Manettia, Luculia, Begonia, Euphorbia, and other winter-flowering plants recommended in previous directions to be grown on freely, will now be advancing towards bloom, and must be carefully tended, as they will be very useful; bring forward also the late-started Gesuera zebrina; and Achinenes pieta, Epiphyllum truncatum and Russellianum will flower in this structure. Plants of all sorts which have mathred their growth must be induced to go into a dormant state by a gradual withholding of water and placing them in the coolest part of the house. Poinsettias advancing into bloom will require a good supply of water, and Eranthemums may have a little liquid manure. Give air when possible, and keep the temperature by fire heat when necessary at about 70° by day, 50° to 60° by night.

Orchid House.

Growing plants generally will still require to be supplied with water, in quantities proportioned to their state of growth; such as have attained maturity may be placed in the coolest situations, where they should have no water for some time; maintain a temperature of 70° by day and 60° by night—not more, or else it may induce some which ought to be dormant to hoot out again.

Greenhouse.

Hard-wooded plants of all sorts must now be housed at onee, taking care to put them in thorough good order before bringing them in. Give the winter-flowering Heaths all the encouragement possible to throw up a strong bloom, but be sure that they have a free circulation of air; such as have just past blooming should be well cut back and placed in the coolest part of the house, or in a pit so as to prevent them from making growth until the Spring. The different varieties of Epaeris are just showing flower, and before they are too far advanced should be nicely trained out and top-dressed if necessary; as they are in full growth, they will require a free supply of water. Continue to pot-off the earliest sown seedling Calecolarias; those first potted should be rooted out and may be removed to a cold pit. Look over the old stock; such as are well rooted may have a shift, at the same time prune them into shape, and the pieces may be put in as cuttings if desirable; see that the drainage is perfect, as they will require a free supply of water now that their season of growth has come. See that the Autumn-struck cuttings of Pelargoniums are all potted off, and give them a slight bottom heat on a dung-bed to assist the rooting process; this young stock had better be grown for the present so as to come in for late blooming; older plants, which were headed back some time ago, should have made a good growth, and should be thrown into a comparatively dormant state by a partial withholding of water and a free circulation of air; those intended for very early foreing ought to be quite dormant, and should have only just water enough to prevent them from shriveling. Let the earliest Cinerarias have plenty of room to develope themselves and a free circulation of air; shift some more for successional blooming. Shake out, divide, and pot any old plants which have been kept back for late purposes, and pot-off early sown seedlings, and sow more seed both of Cinerarias and Calecolarias for late blooming. Mignonette for Conservatory pur

Forcing Fruit Houses, Pineries.

Previous directions with regard to the necessary shiftings, watering, and the regulation of the bottom heat, will still be applicable, observing that both bottom and top heat must be gradually lowered as the days shorten and the external temperature becomes permanently lowered. Fruiting plants may be safely allowed six or eight degrees more than will be necessary for successions, say for fruiters 75° maximum, 64° minimum; and for successions 68° maximum and 57° minimum by night. Air must be freely admitted whenever the weather will permit; and in very cold weather put on a little extra fire heat so as to be able to give air; shut up as much solar heat as possible in the afternoons of bright days.

Vineries.

Early vines intended to be started next month must be pruned immediately, and afterwards the stems painted over with the composition, as before advised; let the glass be thoroughly repaired and cleaned, and the walls done over with a wash of quick-lime and sulphur. If the borders are outside, see that there is a good supply of fermenting material in readiness towards the end of the month to be put on the border a week or two before the fires are started: the pruning of all the general crops of Vines, from which the fruit is cut, should be done this month, and even those on which the late fruit is hanging may be cut back to the fruit when the leaves turn colour and falf, and afterwards make it a rule to prune in every

shoot as the fruit is cut: the interior air of these houses in which the fruit is hanging must be kept very dry and cool, and when fire heat is necessary to ensure dryness, it must be accompanied with an abundance of air; go over the bunches twice a week and take out all berries showing signs of decay.

Peach Houses.

If any of the trees are getting worn out or decayed, now is a good time to replace them with healthy young trees from the open walls; such as have been about five years in training are the best; and if very carefully lifted and replanted in fresh compost, a tolerable crop may be taken the first year. If Peaches are required to be started next month, let them be immediately pruned, dressed, and fastened to the trellis; the house also should be partially closed; let the walls be well washed with quick-lime and sulphur, the borders forked up and dressed with some fresh and rather rich compost; if they are very dry, give them a good soaking of water about the last week in the month. Remember that Peaches will not at any time submit to hard forcing, but much more so at this early season, therefore let the vital principle be very gradually excited. Strawberries in pots for forcing must now be placed in a situation where they can be protected from inclement weather. Continue to make fresh beds for Mushrooms, and spawn such as are ready; destroy wood-lice by pouring boiling water in the cracks; the temperature should range about 60° with a moist atmosphere.

Pits and Frames.

Cueumbers for winter bearing must have a steady heat kept up both at bottom and top; keep the glass thoroughly cleun, as they cannot afford to lose a ray of light now; the temperature may range from 65° by night to 85° by day; give them air when safe, but keep a canvas flap over the openings. Beds should now be thrown up, composed of mixed dung and tree leaves, for forcing Asparagus; be very sure not to put the roots in until the fierce heat has subsided; many a good frame of roots have been spoiled by being in too great a hurry. Sea Kale and Rhubarb may be taken up and forced, if required, and beds may also be covered, but it is quite early enough at present.

NOVEMBER.

Kitchen Garden.

About the 20th of this month is a good time to sow Peas—Carter's earliest and Sangster's No. 1; sow also Mazagan and long pod Beans; small Salading must now be sown under cover; and protection in sharp weather must be given to all latersown Radish in order to prolong their season. Continue to take up and store in frames or sheds the later crops of Endive and Lettuce, also watch Cauliflower, Crange's and Snow's Winter Broccoli, and take them up and store in a shed as soon as they have formed heads fit for use. Cauliflower in frames and under hand-glasses must have abundance of air, and the surface occasionally stirred, and dress with soot and line to keep down slags. Lay down the heads of long-stalked Spring Broccoli facing the north. Dwarf varieties do not require laying, but they are much benefited by having partly decayed leaves laid about them. Protect the roots of Globe Artichokes with a good coating of half-rotten dung. Continuo to carth-up Celery on every dry day. Keep the surface-soil stirred amongst the beds of Spinach, Lettuce, and Cabbage, and dress for slugs. Pot a few strong roots of Parsley for forcing, also plant some in a spare frame for use in bad weather. Keep up the successional coverings and forcing of Sea Kale and Rhubarb. Trench up all vacant plots of ground, leaving it as rough as possible.

Fruit Garden.

The planting of Fruit Trees, if left thus long, should be finished off without delay, and the trees well-mulehed; such as are planted against walls must be very loosely fastened, so that they may sink with the soil. The pruning of Pears, Plums, and Cherries should be commenced immediately that they are divested of their leaves. Now is also a good time to thin out overcrowded branches in the Orehard trees; scrape the moss from the stems and wash them over with quick-lime. Regulate the plantations of Raspberries, and plant new once in well-manured ground.

Flower Garden,

The bulbs of Tigridia Pavonia and conchiflora may now be lifted, and after being dried, stored away in sand secure from nice. Let the stems be cut off from the beds or patches of Japan Lilies, and then cover them with about 4 inches of decayed leaves: a similar covering should be put over the beds of Alstromerias. Dahlia roots will now be matured and may be carefully lifted, taking care to secure the labels to the roots with wire; lay them out to dry previous to storing them away for the winter. Plant Tulips, and finish off the planting of Turban Kamunculus, Hyacinths, Narcissus, Crocus, Jonquil, and Seilla; choose the warmest and most sheltered situations for the Hyacinths, and they will well repay any extra care. Put a little heap of finely sifted coal-ashes over plants of doubtful hardiness, such as Salvia patens, Tagetes hucida, and Fuchsias. Bedding plants in store pets will require constant attention paid to the removal of decayed foliage, and a free circulation of air: a shelf near the glass in a heated pit or Greenhouse is about the best place for them: great care must be exercised in watering, as they must neither be allowed to get dry, nor yet be saturated; when water is necessary, if the drainage is good, give them enough to wet the soil, and then wait till they require it again; never water at this season unless absolutely necessary. Continue to plant Roses of all the lardy sorts, and let them be well mulched with rotten manure after planting. Alterations in Pleasure-grounds must be vigorously followed up in favonrable weather.

Plant Houses, Conservatory.

Now that the cold and dull season out of doors has arrived, a gay and attractive appearance in this structure will be doubly appreciated, and should call for a corresponding exertion on the gardener's part to keep up as gay an appearance as the means at his command will accomplish; at present Chrysmthemums are the principal attraction: these will be succeeded by Chinese Primroses, Violets, Tea-secuted Roses, Tree Carnations, and early Cinerarias, together with winter-flowering plants from

the Stove, such as Poinsettia pulcherrima, Luculia gratissima, Euphorbia jacquiniflora, Gesnera zebrina and oblongata, with many others. Towards the commencement of the new year, however, the great dependence will be on forced flowers; and where extreme gaiety is required, the great utility of the early forced Dutch Bulbs will be more apparent. Forced Camellias also are objects of great attraction; and a few plants from the early hybrids from Rhododendron arboreum, which will expand at Christmas with very little forcing indeed, will be truly gorgeous.

Forcing House.

This indispensable adjunct to a gay Conservatory should now be pretty well filled with the different varieties of plants mentioned last month and the successional stock which will now require to be brought in; these will include Dutch Bulbs, Dielytra spectabilis, Forsythia viridissima, Weigela rosea, Deutzia gracilis, Rhododendrous, Azaleas, Camellias and Roses: let the forcing-process be very gradual indeed; remember, if you push too hard and fast, the flowering will be weak and the flowers pale: let the bottom heat range about 70°.

Stove.

Keep all the winter-flowering plants before specified in the most prominent and warmest situations; on the contrary, those which are dormant, or nearly so, must be kept as cool and dry as their safety will permit. Admit air freely when the weather is fine; and to enable you to give a portion every day, be the weather anything short of severe frost, light up the fires early in the morning and open the ventilators about ten, and close again at two, regulating the amount of air by external conditions.

Orchid House.

The temperature in this structure must now be considerably lowered and a drier atmosphere maintained, to induce that state of rest in the plants which is necessary for the next two mouths at least. The temperature by day without sunheat should be kept at about 60°; with sun-heat it may be allowed to rise to 70°, but not more; night temperature 55°. Blocks and baskets will not need to be dipped; but as they must not be allowed to get too dry, they may be slightly syringed once a week.

Greenhouse.

The general stock of hard-wooded plants will now be comfortably housed and in a comparatively dormant state; and the principal attention they will require will be to give an abundant circulation of air and to be extremely particular as to the watering; more hard-wooded greenhouse plants die from injudicions watering than from any other cause; when the plant requires it, give enough to soak the ball and have done with it; but at the same time ascertain that the water percolutes away freely. Winter-flowering Heaths, Epacris, some Acacias, and Correas will of course require a more liberal treatment and the best situations; Pelargoniums will now require a considerable degree of care; guard well against damp and spot, remove all decaying foliage; and if the branches are too thick, thin them out to admit air. Look out for worms in the pots; if you cannot eateh them without disturbing the balls, give some lime-water, which will move the worms and do the plants no harm: shifting must be attended to; but that will depend upon the purpose for which the plants are grown: if for early foreing, they should now have a final shift; but for later purposes endeavour at present to keep them dormant. Cinerarias should have every encouragement to promote free growth, as they are now in full action, and a eheck would be injurious to the flowering. Mildew is often prevalent during the sluggish atmosphere of this mouth, and must be kept under by frequent dustings with flour of sulphur; remove decayed leaves, and let the plants have a free circulation of air whenever possible. Calceolarias in their several stages will require attention; old plants shifted last month will require plenty of room and a free circulation of air; young seedling plants potted off from the earliest sowings must have a good shift when the pots are full of roots; later successions should be potted off from the store-pans, and a good supply pricked out from the seedling pots for Spring purposes. Persevere in fumigation; the destruction of noxious insects in plant-growing is absolutely necessary for success. The roots of Lilium lancifolium album, rubrum, punctatum, macranthum, and eximium, all of which are among the finest Conservatory ornaments we possess, should now be purchased and potted: make use of good-sized pots, say eleven-inch pots for four roots, and larger in proportion if necessary. Let them be covered with four inches of soil; and for the present the surface of the soil should be at least three inches below the rim of the pot: see that the drainage is all right, and place them in a cold pit and give them no water until the growth of the flower-stems pushes through the soil. Lachenalias which are started should be kept near the glass. Cyclamens, which are worthy every attention, are now making growth, and should have a light and airy situation on the front stage; be careful in watering, and avoid a damp sluggish atmosphere. The Cactus tribe and Kalosanths must now be kept perfectly dry.

Forcing Fruit Houses, Pineries.

Make use of every possible means to mature the late growth of Pines intended for next year's fruiting; to further this process, let them have a drier atmosphere, and a free circulation of air when the weather will permit; the range of temperature must be lowered to about the standard for the next two months. Winter-fruiting plants now swelling must of course have a more liberal treatment by affording a higher temperature with a moister atmosphere, and occasional supplies of tepid manure water.

Vineries.

Continue to make fires occasionally for the preservation of the late grapes, give air freely at the same time, and keep all the mouldy berries cut out. In the early Vineries just started, it is a good thing to introduce a body of fermenting materials, if possible, which is very grateful to the vines, and will assist them to break very regularly: let fire heat he applied with caution, as, until they have well broken, the night temperature ought not to exceed 50': the day temperature will be much influenced by external conditions; at present, in the absence of sun, 55° is a safe range.

Peach House.

The earliest house may now be closed and brought under the routine of operations as directed in the early mouths of

the year; tying them to the trellis need not be commenced until the house is closed, at which time retouch any places not covered with the composition: let them be very gradually excited; 40° by night is the best at present. See that Cherries, Peaches, Figs, and other fruit-trees in pots are well protected from frost, and the tops secured from breakage by high winds.

Pits and Frames.

It will be necessary to keep up the bottom heat to Cheumbers at a range of 80°, two or three degrees higher rather than lower; and if the heat is produced by dung, see that the linings are kept well topped up; and should the top heat rise above 70°, leave a little air on at night. Start another bed of Asparagus for succession, also bring forward another supply of Sca Kale and Rhubarb, either by taking up the roots and placing them in the Mushroom-house, or clse by covering the beds out of doors with dung and leaves; in the latter case do not lay it on too thickly, or there will be danger of burning the crowns or drawing it up very weakly. Let there be a good supply of fermenting materials always kept in readiness for contingences.

DECEMBER.

Kitchen Garden.

Take advantage of frosty weather to wheel out manure to all parts of the garden where it is likely to be wanted; make good-sized heaps in places where it will be at hand to spread out when the crops are cleared off; but on vacant ground it may, of course, be spread out and trenched in at once. Select the plots of ground you intend for Parsnips, Onions, and Carrots next year, and trench them up at once in as rough a state as possible, that the frost may penetrate. Continue to store Endive and Lettuce, and protect Celery in severe weather. If the weather is mild, you may still look out for Cauliflowers and Grange's and Snow's Broccoli, and store them away as they become ready. Much over the beds of Rhubarb, also of Globe Artichokes; stir the surface of the ground amongst advancing crops whenever the weather will admit; sow small salading under cover twice a week; take up Chicory roots from the May sowing and put them in a corner of the Mushroom House, and the leaves will make a very wholesome addition to the salads at this season.

Fruit Garden.

It is presumed that the planting of fruit trees of all sorts is now entirely fluished off, and the trees properly secured and mulched for protection during the Winter, and that the pruning and nailing of all the hardier sorts of fruit trees is being proceeded with whenever the weather is fine enough: do not attempt to prune fruit trees in frosty weather; it is often very injurious to the shoots, eausing them to die back; we would most strongly recommend that the stems of standard Peaches, Nectarines, and Apricots against the walls should be well bound round with stout hay-bands before the ascending sap is on the move. When Gooseberry and Currant Trees have been pruned, choose a wet day, and dust the trees well over with quick-lime; the ground may then be mannered and forked over, nuless it is desirable, on account of the Gooseberry enterpillar, to remove the top soil completely away as before recommended, which operation is best performed when there is frost sufficient to cake the surface, say two inches; the tender sorts of Strawberries, particularly the British Queen, will be benefited by a light covering of brake during the prevalence of very severe weather; do not forget former directions with regard to the Orchard Trees; for if they are not done at this season, they will most probably be forgotten altogether.

Flower Garden.

Beds of Roses, both Standards and Dwarfs, should be well dressed with good decomposed stable manure; tenderer varieties in open beds, particularly Ten-scented, may with great advantage be carefully lifted and planted very thickly in trenches in a sheltered place, where they can be well protected in hard weather. See that beds of fxias, Gladioli and Lilia are well protected by a covering of half-decayed leaves. Dust over the beds and patches of Hardy Annuals with quick-line, soot, and wood-ashes in a dry state; slugs are apt to be very destructive to them in mild weather. Most of the decidnous trees will now have shed their leaves; and therefore the whole of the lawns should be thoroughly swept, the borders well raked over, and the grass and gravel kept constantly well rolled; trench up all vacant beds, and leave them rough, to become well frosted; choice and tender herbaccons plants should also be protected from severe frost by a mulching of half-decayed leaves; now is a good time to see if the drainage of the graden is perfect; if not, let it be seen to at once, for the frost will always have more effect upon plants where the drainage is imperfect. Do not neglect former directions with regard to the store-pots of bedding-plants; the next six weeks is a critical time for them; after that time, potting off will again commence.

Plant Houses, Conservatory.

As this structure will probably be very much visited at this dull season of the year, extra care should be taken to keep the interior in a comfortable state, both as regards temperature and the absence of any dampness about the thoors and pathways; watering should, at this season, be all completed before no m, and the water which percolates through the pots wiped away early. In order to make the enjoyment of these houses more perfect, pay constant attention to those little things which constitute the perfection of neatness, such as picking off decayed foliage, pulling small weeds from the surface of the pots, and, by carefully stirring, give those surfaces a fresh and near appearance, and occasionally rake over the borders with a sharp-toothed iron rake. Camellias in pots from the Forcing-House may have a little tepid manure water; but do not overdo it; the permanent plants in the borders may be so assisted as soon as the buds begin to swell off fast. Cut back and put in fresh plants of all the late-flowering Climbers, such as Passiflora, Lapageria rosea, and Plumbago capensis. Fuchsia dominicana will now be a conspicuous plant at this house. Train ont Kennedyas and keep them very clean, also Troperolums, and let them have a free circulation of air; be careful not to over-water them.

Forcing House.

Upon the good management of this structure very much of the gay apppearance of the Conservatory for the next two months

at least will depend. As the earliest introduced plants are now in an advanced state, another batch should be brought in for succession, and amongst them the most forward plants of the Indian Azaleas may be more liberally introduced; a more useful plant for forcing than the Indian Azalea cannot be, as it not only makes a very fine display, but also remains in bloom a long time. Introduce more pots of Deutzia gracilis and scabra, also Weigela rosea, Dielytra spectabilis, Lilies of the Valley, Roses, Pinks and Sweet Williams; if required, also Lilaes, another good batch of Dutch Bulbs, and more Rhododendrous.

Stove.

If these are cultivated to any extent and a good supply of bloom is generally looked for, it will be necessary to look to such plants as will be required for early blooming; those started early last year will now be showing signs of a renewed growth after their season of rest, such for example as the Gloxinias and Gesneras, which may be shaken out and re-potted; give them very little water until they have made a good start, when they may have warmer places and the needful supply. A few Achimones may also be started if desired, but it is quite early enough at present. A few of the most likely-looking bulbs of Amaryllis may be re-potted or top-dressed as occasion requires, and plunged in a moderate bottom heat. Begonias should be shaken out and re-potted and brought forward slowly; a few Gardenias may be started; and if any of the Francisceas are showing signs of growth, they may be encouraged by a warmer situation; and when growth is making progress, shake out a part of the old soil and re-pot them, water moderately at first, and increase the temperature with the growth.

Orchid House.

As most of these should still be in a dormant state, the operations connected with them will not differ much from the former routine; a few, however, will no doubt be showing signs of renewed activity, and this must not be checked; let such plants have the warmest situations, and gradually increase the quantity of water. Use every exertion to destroy insects; it will save much trouble and vexation by-and-by. Cock-reaches are often brought in with imported plants; they are very destructive and should be exterminated.

Greenhouse.

Omit no opportunity to keep up a free circulation of air amongst Heaths and hard-wooded plants generally; apply sulphur to Heaths as soon as mildew appears, and continue as before to pay great attention to watering; do not let them get dry, but yet, in severe weather, lean rather to the dry side than over-water. Gardoquia Hookeri and Crowia saligna should be removed into a higher temperature about this time; give them a shift into a larger pot when well started. Now is a good time to shift the varieties of Kalosanths, for if left until late in Spring, the general result is a fine growth, but no bloom; keep them very short of water for some time. Pelargoniums must be kept near the glass, but avoid draughts of cold wind; the stock required for forcing, and also very large specimens, will of course be in a more excited state of growth, and must have more water and a closer and warmer atmosphere. Plants for forcing may be top-dressed, but not shifted any more; on the contrary, growing specimen plants should be shifted as often as they require it, until they have reached their blooming pots. Forward Cinerarias should now be put into their blooming pots, successional plants shifted, and more potted from seedlings; the same may be said of the Calecolarias, which are now in very active growth: attend well to fumigation, picking off decayed foliage, and admitting air when the weather is favourable. As the Chrysanthemums go out of flower, let them have the shelter of a cold pit or other temporary protection, but harden them as much as possible, so as to get good cuttings.

Forcing Fruit Houses, Pineries.

The temperature and general management of the whole stock will be much the same as directed last month; let them be kept as dry as is consistent with safety, and neglect no opportunity when the weather is favourable of giving them a supply of fresh air.

Vineries.

The temperature may take a range of 55° by night, with a slight increase towards the end of the month; but do not push too hard until after the sun begins to increase in strength; change the internal air as often as the weather will permit.

Peach House.

Maintain a healthy moist atmosphere in the early house, but admit air freely when possible, and do not exceed 45° at night. Prepare later houses for starting next month. See that frost is excluded from Figs in houses and pots, or the embryo figs will be very much checked and the chance of an early crop very much reduced. Pot plants should be shifted, if necessary, whilst dormant. The first batch of Strawberries, Keene's Seedling and Black Prince, may be put into the Vineries or Peach House a week or so before they are started, so that they may be gradually excited. A portion may also be started in a frame on a mild bottom heat.

Pits and Frames.

The present is about the time to follow up the old practice of making up a good bed of well-fermented dung for a single light box, in which to rear the seedling Cucumbers for early purposes. Carter's Champion is the best: take care that there is no lack of prepared fermenting materials for topping up the linings of Cucumbers in bearing, for succession in Pine Pits, and all the purposes for which it is required. Lay out some Early Frame Potatocs in a gentle heat to sprout, for planting early next month, which is a superior plan to planting them without sprouting, saving time and trouble. Bring forward successional beds of Asparagus, also Sea Kale and Rhubarb; sow Radishes, Wood's frame, in a frame on a gentle heat.

PART III.

CALENDAR OF FARM OPERATIONS.

JANUARY.

The horse-labour in this month consists for the most part of earrying corn to market and hauling manure to the fields where it is next Spring to be applied. There is also the carriage of cattle food and of purchased manures for market, of line and marl to the fields to be clayed or limed, of tiles to the fields being drained, and of road material where necessary. The land may occasionally be fit for tillage operations, and then ploughing proceeds, in the case of grass and clover leas, for wheat or oats, in the case of stubble land if any yet remains unturned, for root crops or for beans.

The hand-labour of the month includes the thrashing and preparation of grain for market, the loading and unloading of all kinds of material carried, the attendance upon live stock, road and fence making and mending, land drainage, and the preparation of composts for application later in the season. Many of these operations are continued on from the commencement of the winter until its close. Some of them are taken up from previous months of the last year; and to these we

refer for further discussion of them.

Compost Manure.—The preparation of manure for use during the season of vegetable growth is one great business of the winter season. This includes the purchaso of fertilizers, both soluble salts, such as those of ammonia and the nitrates of potash and soda, for application as top dressing to the growing crops in April and May, and the less soluble fertilizers, as guano, superphosphate and bone-dust, which may be applied early in the season with less risk of waste and more probability of being used by the plants as soon as ready for absorption. It also includes the manufacture of heaps of fertilizing matter on the farm, whether of farmyard dung exclusively, or of dung and the various vegetable and mineral auxiliary manures which the farm affords.

First, of those which are properly the compost heaps of the farm :-What a number of things may be turned to good account is plain from the mere list of the animal, vegetable, and mineral substances existing on the farm, of some use as manures. There are thus, roots, hedge-cluppings, fallen leaves, weeds, couch-grass, fern-leaves, moss, river- and sea-weeds, sods and turf from ditches, lanes and hedgerows, sawdust, spent bark and peats when properly decomposed, among vegetable substances. Many of them contain their nitrogenous part in a higher proportion than the straw of grain, and several of them are equally rich in the mineral constituents of plants. Besides these vegetable substances there is the animal waste, sometimes accessible on a farm, such as cureases, blood, bones, fat, blubber, waste fish, sprats, mussels, and other shell-fish, which are in some places and sometimes to be lad. They all contain a large proportion of nitrogen, much more, indeed, than ordinary farmyard dung. Mineral substances are also available, such as earth from hedges, scourings of ditches, banks, ponds, road-scrapings, and various marls, chalk, and sometimes beds containing a considerable proportion of phosphate of lime. Refuse substances of trade are also sometimes available, and equal in their fertilizing effects to any known manure; such are woollen rags, shoddy, soapers' waste, glue refuse, refuse of starch- and sugar-works, of provision-curers, slaughter-houses, curriers,

Any of these substances which contain the food of plants are of course applicable with good effect as a manure; but besides their direct contribution of matter to be built up in the growing crop, their influence on the texture of the soil to which they are to be applied has to be considered; and hence, when applying mineral matter we improve light soils by the use of clayey composts, and still soils by the use of light and organic composts. It is, however, the advantage of the compost form of manure, that the effect produced by its application is greater than the sum of the effects which would have been produced by the separate use of its several ingredients. And hence, in making our composts we use such ingredients as will improve and act on one another in the heap. Many of the ingredients named require a complete disintegration, in order to their ferti-

lizing character, and hence lime, which facilitates their decomposition, is a very important ingredient in most composts. Pent, for instance, is a substance which can be brought into use by the aid of lime, and composts of peat thus prepared, with the addition of farm dung, are often a most successful method of eking out and increasing tho fertilizing resources of the farm. In practice, a halfcharred mass of rough vegetable matter if it had been originally woody, or a half-rotten heap of lime, or even mere mould, with such matter, if it have been originally succulent, may well be made the foundation and the top layer of heaps containing rotten fiesh or blubber, or mere dung, to be ultimately well mixed up together and used, as the dung-heap usually is, for the green crops of the farm. If the land be light or spongy it is well to mix as large a proportion of clay or marly earth as possible, for the sake of its influence on the texture of the land.

It must, however, be added, that it is not fo be recommended that much time be devoted to compost-making on the farm. Such manures are bulky, and involve great labour of cartage, and the system now is to spend money rather on the direct purchase of cattle food or portable manure, than on the labour of developing the less immediate home resources of the farm. The use of many of these ingredients, as peat, first well dried and broken, sawdust, and even spont bark (which is best half charred before use), is best confined to their employment as litter or in the yards, where they may suck up liquid fertilizers, otherwise liable to waste. If laid up in heaps they should be soaked with gas-water liquid manure, or other easily fermentable substances by which they are reduced into a more soluble condition. If lime be mixed with them, its caustic effect will be increased by the addition of a certain

proportion of common salt. 2. Of Farmyard dung:—This, as it consists specially of what has already grown out of the soil, acts as a fertilizer by restoring to the land ingredients taken thence, together with matters drawn also from the air, which shall thus feed another crop of plants. It is well, in order to cheek wasto of manuro on the farm, to have a distinct impression of the quantitative nature of the fertility of the soil. Given a suitable climate and suitable plants, it depends entirely on the presence in sufficient quantity of those particular atoms which the plants invigorated by that climate need for the erection of their structures. It is often declared for the erection of their structures. that the rain washes the valuable quality out of the dung, and that exposure to air induces the loss of its valuable qualities. Now, the quality of a manure depends altogether on that of its constituent particles. It is because ammonia contains nitrogen in a form in which plants can use it, that it is a useful element of the dung-heap, and to speak of exposure as rendering dung liable to the loss of much of its valuable qualities, just means that it is liable to the loss of its ammonia. So with the phosphates and other soluble salts. Dung never loses quality except by losing quantity. They are actual material particles, possessing weight, which

fly from it or which flow from it; and the distinct and definite idea that so much matter has gone by mismanagement, which if built into the plants would have added to their weight, is one which it is well to have fixed in the mind. The loss of so-called quality might be borne under the idea that by skilful management its lost character might be restored: the loss of so much quantity is absolute and irreparable; as entire as if the money value of the quantity in question had been thrown into the sea. The waste to which farmyard dung is liable arises chiefly out of the mode of its manufacture. For the sake of obtaining the dung in a condition in which it contains readymade the food of plants, and in which it may be easily mixed with the soil, it is fermented in large heaps, and these are generally open to the air and rain. The consequence is, that the products of the fermentation which cusues escape into the air or are washed out into the ditch, and in either ease are lost to the farmer. The remedy is either to plough the manure under as soon as made, i.e. as soon as the litter is used and soiled, or to gather it in heaps from day to day as made, placing it on a layer of absorbent carth, and covering it with a layer of earth in a ridge-form, which shall shed the rain and suck up all exhalations. Dr. Voeleker tells us indeed that it is much more by the washing of rain-water than by the escape of the gaseous products of fermentation that manure suffers loss, and that no better plan exists of applying dung to the land than spreading it over the surface as soon as made, whether it be ploughed under at once or not. When freshly made it contains but little matter capable of loss by exposture, or by washing, but this loss becomes possible and actual as it rots in heaps together. The inference as to topdressing of recent manure during the winter months, to be ploughed under as the weather permits, before spring time, is one which ought to be fully tested in the field.

The use of an absorbent and disinfectant substance which shall fix the volatile products of fermentation and at the same ti- i hinder the fouling of the air of our stables and feeding-nouses, would be almost done away with, if the practice should prevail of ploughing in or applying dung as soon as made; nevertheless for a long time to come, indeed always as regards a considerable portion of the manure of the farm, dung will be rotted in heaps, and the means of retaining and fixing the products of its fermentation will be used. Earth covering the beap is an efficient strong box for the vapour of a rotting dung-heap. Charcoal, which has been highly spoken of for this use, is a good disinfectant; but this is hy oxidizing, which means burning up the emanations which we wish to retain. To cover the dung-heap with charcoal would indeed remove all smell, but this it would do by destroying or converting into substances unavailable for plants the things we wish to use. Gypsum is good as a manure in itself, but comparatively inefficient as a fixer of ammonia, owing to its comparative insolubility. Chloride of zine (Sir W. Burnett's disinfectant) is costly and poisonous. Sulplute of iron would be a good fixer of ammonia, owing to the sulphuric acid it supplies, but its iron would convert the phosphates into an insoluble and useless salt. Common salt has some powers as a fixer of ammonia, but these depend upon affinities so nearly balanced as to render them neither permanent nor long-lived. Sulphuric acid would indeed be a good fixer of ammonia, but it is entirely imfitted, by its corrosive properties, for use near animals. Mr. M Dougall of Manchester suggests the alkaline or lime salts of earbolic acid, a product of the distillation of coal, as an efficient and harmless fixer of ammonia, and disinfectant, and there exist testimonials in its favour. As to the quantity of farm manure possible on a farm, the following data may assist an estimate. On Whitfield farm, Gloucestershire (150 acres of grain crop, 30 acres of clover, and 60 acres of green crop), upwards of 2000 cubic yards of manure were made annually, or probably about 1200 or 1300 tons, and this would represent I ton of straw as making about 4 tous of dung. This was when large quantities of green crops

were grown, probably 1000 to 1200 tons of roots each year. Again, as so many separate facts bearing on this question, it may be added (1) that an ox fed on green food and hay and straw will yield about one ewt, of exerement, liquid and solid, daily. Mr. Haxton, in the 'Cyclopædia of Agriculture,' calculates that a stall-fed ox will yield of solid dung during—

solid dung during—	tons	owt.	grs.	lbs.
210 days 55 lbs. a day	5	3	(0)	24
155 days 41 lbs. a day	(h	17	l	20
Add litter 14 lbs. a day	2	5	2	14
Urine absorbed by litter 22½ lbs	3	13	1	8
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But besides this a lot of urine runs to waste, making altogether probably about 20 tons per ox, stall-fed, throughout the year. If the ox be stall-fed rather more litter is needed, and all the urine is absorbed by it, so that the quantity is not only greater, but its quality is better. On this point Dr. Voeleker's figures may be quoted. Ho found box manure to contain 71 per cent. of water, and nitrogen equal to 2:37 per cent. of ammonia, when yard manure contained 1:4 per cent. of introgen, equal to 1:7 of ammonia. Box manure contained also 3 per cent., one half more, of phosphoric acid and 2 per cent. of potash

and soda-more than twice as much as larmyard dung. (2) The horse voids about 30 lbs, weight of dung daily. It loses more by perspiration, and is generally fed on drier food than the ox, so that there is less urine and the dung is drier. Mr. Haxton calculates its annual yield at about 11 tons :- Much however of it is wasted on the roads when it is out at work. (3) Of pigs and sheep it may be estimated that eight or ten make as much manure as a fullgrown ox, consuming as they do about the same quantity of food, (4) If 600 acres be cultivated on a six-lield system, it may be supposed to yield per amuum 600 tons of dry fodder and litter, and 2500 tons of green and succulent food; and the produce of manure may be estimated thms:-The winter food will keep 120 beasts or 1000 sheep, yielding 1600 tons of larm dung during the winter months. The summer stall feeding and the stable may be expected to yield other 400 tons, or 2000 tons in all. How much this may be reduced in quantity and how much in quality by mismanagement, Dr. Voelcker has shown in his illustration of the superiority of winter top dressings and the application of fresh-made manure or of box feeding, and manure-making under cover, over the ordinary method of treating straw down in yards, and afterwards "making" the dung in exposed and rapidly fermenting heaps.

3. Of Artificial Mamnres :-The use of these as auxiliaries even in the case of farms, where the yard and box dung is well managed and enriched by the consumption of large quantities of purchased cattle food, is now an almost universal practice. Guano, 2 or 3 cwt. per acre, applied to grain crops, root crops, and grass lands. Bones and sulphuric acid or superphosphate of lime, applied to Turnips, Swedes, Mangold Wurzel, at the rate of 3 or 4 cwt. per acre, and in smaller proportion with good effect to late-sown barley. Sulphate of ampnonia and nitrate of soda, 1½ or 2 cwts. per acre, applied to grain crops and grasses. Common salt 2 or 3 cwt, per acre, applied to grain crops on straw-growing soils, also to Mangold Wurzel: these are among the most important and generally used. As to the period of applying them, the rule would be to put the very soluble salts to the land when the plants are actually growing, and therefore ready at once to take them up; thus ammoniacal and soda salts should be put on in wet weather, during April, on the growing wheat. Bone-dust may be applied in Antumn on pastures, and any time before seed-time for turnips. Superphosphate or Guano may be well mixed with the soil just at the time of sowing the seed.

It is now the fashion to look upon ammonia and phosphoric acid as the essential elements of manure. Their special importance, however, arises out of their being the elements generally present in the least quantity in the

soil, in proportion to the demand made on them by a large crop, but they are not more essential than the other elements of the growing plants also present in most manures. The fact is, that the element present in the smallest quantity (in minimo) rules the growth of the crops, and the supply of it, whatever it may be, is therefore the most needed and most efficient on the growth of the erop; and as phosphoric acid and ammonia are practically, in general, the bodies present in minimo in the soil, their addition in the manure is most generally sought after. And so guano, superphosphate, &c., are estimated according to the quantity of these ingredients which they contain. The ammonia present in them is generally valued at £50 to £60 a ton, the natural phosphate at £7 or £8 a ton, the soluble phosphate at £13 to £30 a ton; and so their value comes out at £13 to £14 a ton for good guano, and £6 to £8 for good superphosphate.

Guano is used for all sorts of crops; chiefly grain crops, however, in England, where superphosphate is chiefly used for Turnips, its weight per bushel is a fair test of its purity. If it exceeds 70 lbs a bushel, it is generally adulterated, the things used for this purpose, loam, &c., being heavier than the natural manure. But for the tests of purity of the several fertilizers of the market, we must refer the reader to the agricultural chemist. His safety is to be secured (1) by dealing with men of established reputation as manure merchants, (2) by retaining a scaled and anthenticated sample of the article bought, for analysis, if the result of its application be suspicious, and (3) by sending this sample for analysis to some chemist, whose report would lead a jury to justify a claim for damages in case the crop has failed, because the manure was not what it was declared to be.

FEBRUARY.

The horse-labour of this month includes the conclusion of wheat-sowing (see October), and preparation of land for Beans and Peas, and putting in the seed. Parsnip may be sown now on land properly tilled, deeply cultivated, and manured in Autumn. Land may be ploughed for the earlier-sown green-crops, if it was not prepared for them in Autumn. The carting of grain to market, and of food, and seeds, and manure for market, also of manure to fields, continues at times when field cultivation cannot proceed.

The hand-laborer of the month includes seed operations and preparations for the sowing of the crops already named;

work in moving manures, barn-work, attendance on the live stock of the farm.

Purchase of Seeds.—All spring-sown seeds may as well be purchased now. Turnips, about 3 lbs. per acre; Mangold Wurzel, about 4 to 6 lbs. per acre; Carrots, Parsnip, about 7 lbs. per acre each; Kohl Rabi, 4 lbs. per acre, if at once drilled in rows, or 1 lb. an acre if sown in a bed and transplanted; Cabbages about the same, to be sown in a bed and transplanted; Clover, 12 to 18 lbs. per acre; Grasses, 2 to 3 binshels per acre, are the usual quantities. If special care is decuted desirable, procure small samples and sow them in flower-pots, and so judge of the vitality of what you purchase. When seeds are dear, the result is caused through the total or partial failure of the past season's seed crops, and in consequence the germinating powers are not on the average so good as may be expected in favourable seasons, but still, if unadulterated, they are more than supplicient to ensure

The purchaser cannot be too careful where he deals, because it is well known that when the supply is scarcely sufficient to meet the demand, dishonest dealers will be found who will adulterate the seeds for the purpose of being able to undersell those of the Trade who do not resort to

these practices.

Therefore it specially behaves the purchaser to give a fair value for the seeds he requires, and to deal with a

Seedsman of established reputation.

The Culture of the Farsnip.—Parsnips grow best on deep loanny soils. This crop should come after a Grain crop.—the stubble being well cleaned in Autumn, and deeply ploughed, and well manured then. In February, harrow down the land, and sow the seed 7 lbs. per acre, mixed with two bushels of sand, and sown by the Suffolk drill, in rows about 15 inches apart. The large Jersey Parsnip is the best variety of Cattle Parsnip, and there is no better food to steam and mingle with hay-chaff for a winter cow or for pigs. Eight to twelve tons are obtainable per acre; they are forked up in November, and may be pitted like potatoes. They should be singled out and kept clean by the hand-hoe during Summer, being left at intervals of about 6 inches to the row. If the land is full of small weeds it may be well to sow a few Turnip-seeds or Barley-seeds with the Parsnip-seed, which, springing first, will show the position of the future row, and so enable an earlier hoeing of the land. Carrots are, however, in general preferable as a farm crop to Parsnips, involving

less labour and annoyance, and yielding a crop, which, if it be not quite so good a food per ton, is a better crop

Cultivation of the Bean.—It grows best on what may be still called Wheat soils. Though Whênt is now grown everywhere, Wheat and Bean soils are the stiffer class of soils; though, as Wheat is now grown on light land, so Beans, also, and Winter Beans especially, are cultivable on sandy land. Among the sorts are the commen Scotch—hardy, prolific, long-strawed, and weighing about 600 to the lb.; the Common Tick, shorter strawed, and not so large, about 900 grains per lb.; the Heligoland, hardy, earlier than the Scotch, a small round seed, 1200 per lb.; the Winter Field Bean, the hardiest of any, as small as the last, but not so round, earliest at harvest time, and so, least liable to be attacked by the black plant-louse, of very short straw, and heavier per bushel than any other sort, sometimes, indeed, weighing 70 lbs. per bushel. There are many long-podded Beans which are adapted for field as well as garden, and have larger grains, but are less hardy. Winter Beans may be sown in October, on a Wheat stubble, pared and cleaned, grubbed or scarified, manured with 20 or 30 cubic yards of dung per acre, spread and ploughed in; and the land, being well harrowed, receives the seed, 2 bushels per acre, by means of the Suffolk drill, sown in rows 18 or 24 inches apart, so as to allow of horse-hocing in the Spring. The levers of the drill should be heavily weighted, so as to bury the seed thoroughly. The plants come up before Winter, stand the frost well, are horse- and hand-hoed in Spring, come to flower in May, and to maturity generally by the end of July, in time to enable a tolerably efficient cultivation of the land before Wheat is sown upon it,

The cultivation of Spring-sown Beans may be the samo as this, allowing for the different sced-time; or they may be sown above the manure, in drills 2 feet wide, very much as Potatoes are planted, being afterwards horse-hoed and cultivated like the Winter sort; or they may be ploughed in, being sown by the Bean harrow in every second or third furrow, as the manure is being ploughed under. The quantity of seed may be from 2 to 3 bushels per acre, according to the size of the seed and the width of the rows. The best seed-time is the earliest Spring-time, when the land is fit for cultivation; the crop may be from 30 to 40 bushels per acre. The harvesting is by means of a heavy hook or

the reaping machine. The erop is tied in sheaves with straw bands, and carried to rick after exposure enough to

Culture of the Pea,—The Pea prefers a lighter soil than the Bean. The sorts commonly grown are the Common Grey, a late, long-podded, prolific, strawy sort; the Early Grey Warwick, carly, small, short-strawed; Early Charlton, also grown in gardens, and much cultivated for the supply of the London market. It is sown in January, on a well-cultivated and manured stubble which has received thorough Antumn culture. After being thus prepared, the land is ribbed in shallow drills, at intervals of 2 feet; and 3 bushels per acro are sown in the drills, and covered by the harrow or the hand-hoe. The intervals

enable horso-hocing.

In common practice, Peas are sown by the Suffolk drill, on the flat with heavily-loaded coulters, in rows about 15 to 18 inches apart. They are hand-heed and horse-heed, and ultimately partly covered on one side by plough or hand-hoe, with earth-land over the lower part of their stem, so as to throw the rows all one way. The common seed-time is the end of February. When ripe, in July, they are ent with hook and crook, or with seythe, being gathered into bundles by the mode of cutting. These are may be from 24 to 36 bushels per acre.

MARCH.

The operations of this mouth include the sowing of Spring Wheat, of Oats and Barley, of Parsnips (if that is not already done), of Grass and Clover-seeds, of Spring Vetches, of Peas and Beans (if not already finished); also the planting of Potatoes.

The horse-labour accordingly includes the ploughings, harrowings, and carriage involved in all these operations; also rolling of Wheats, Old Clovers, and Grass-lands.

Hand-labour is directed to all these seed-operations, to the gathering of weeds and stones, to the management of the

manure (filling it into earts, &c.), and, as before, to barn-work and attendance on live stock. The Culture of the Oat.—Oats occupy one-quarter

of the arable land of Scotland, and about one-tenth of the arable-land of England. This crop is of greater importance than even Wheat in the northern part of the island, in the proportion in which 32,000,000 bushels of Oats are

worth more than 7,000,000 bushels of Wheat.

This erop is grown on all sorts of soils, from clay to peat. It generally succeeds Grass and Clover in Scotland; in England it is taken after Grass, and green crops of all kinds. In Scotland the ploughing for Oats is often Winter's work, and the seed is sown broadcast in March or even earlier,—4 to even 6 or 7 bushels of seed being used per aero. It should be sown with the Suffolk drill if the land be not so ploughed as to leave well-defined furrows into which the seed will fall, and so come up in rows. Outs should be cut before being thoroughly ripe, or they will be apt to shed their seed with the wind. Outstraw, by itself, is good fodder, -Barley-straw being preferred to it only for the Clover which the latter generally contains.

There is a great number of sorts of Oats in cultivation.

some of which we may just name:-

Potato Oat, of good quality, rather short-strawed, productive, but more liable to disease than other kinds; Sandy Oats, a free grower, tall and still, not of such good quality as the Potato sort, but hardier and rather earlier; Hopetown Oats are a productive, bulky, strawy, large-seeded kind; Early Angus Oat, short-strawed, productive, and adapted for rich land; Poland, the earliest and shortest-strawed of our sorts of Oat, fairly productive, well adapted for rich land; Tartarian (black and white), a coarse, strong-strawed, extremely productive kind, not apt to lodge, yielding many bushels of a large light grain.

Oats are generally chosen for sandy soils and cold late climates, where Wheat-harvest would be thrown too late, and good samples of Barley could not be expected.

The Cultivation of Barley.—It is generally taken as the crop succeeding the Sheep-fold, whether the crop eaten off has been Turnips, Rape, or Mangold Wurzel. The land is ploughed in March or later, and it is sown with 3 bushels, or thereabout, of Grain per acre, with the Suffolk drill, in rows about 8 or 9 inches apart. It prefers the looser and lighter soils; and it is an old saying that "Barley may be sown in the dust, and Wheat in the mud."

When sown, as it generally is, after Turnips, the land should be ploughed shallow, immediately after the full length of a furrow has been cleared by the sheep; and if it lies thus some weeks before seed-time, it is better, in order to weather the soil, and so obtain the loosened condition of land to which reference has been made. The

Barley crop, on well cultivated land, may be expected to reach at least 5 quarters per aere; it occupies about onetwentieth part of the arable-land of Scotland, and nearly one-sixth of the arable-land of England, according to the imperfect statistics which have been published.

Amongst the sorts may be named the Common English Barley, early, tolerably productive, short-strawed; the Chevalier, somewhat later, larger and longer-strawed, of firstrate quality, and very productive; the Annat Barley, even more strawy than the Chevalier, but not so hable to be lodged; Common Bere, a four- or six-rowed Barley, of coarser quality, hardier, and adapted to poorer soils and harder climates.

The harvesting of Barley is conducted as that of the other cereal grains,-the crop being, however, suffered to become more thoroughly ripe than any other before it is cut; and in England it is laid in swathe by scythe or ma-

chine, and not generally tied in sheaves.

Potato Culture.—The field-culture of this crop may best be copied from the Scottish farmer, who cultivates it to as large an extent as he does even Wheat; and notwithstanding the great risk which has, of late years, attended the growth of this erop, it is still undoubtedly one of the most profitable that is cultivated. It is generally planted in drills or furrows 26 to 28 inches wide, made by the plough, in land which has been well cultivated before winter, and dunged either broadcast in Autumn, as liberally as the farmer can afford, or in the drills, along with the sets in Spring. In the latter case, the carting out of the dung and spreading it in the drills, and setting the Potatoes, and ploughing the drills back so as to cover the sets, all go on together; and the operation is conducted in March and early April. The plough opens the drills on one side of the working party, who are spreading the dung and planting the sets, and covers them up on the other side of them, travelling round and round perhaps a dozen or twenty open drills, where the dunging, spreading, and planting are proceeding. A dressing of guano and salt may he sown broadcast over the work before the last splitting of the drill which covers the sets. The drills are, by-and-by, lightly harrowed down, the sets come through, and, if there be liability to frost, may be covered up by the double-mould board-plough. The intervals between the rows are horse-hoed, and those between the plants in the rows are hand-heed, and the last operation is the earthing up the rows by the double-mould boardplough. When the leaves are withered, the Potatoes are ploughed out, every other drill being first opened by the same double-boarded plough, the tubers are gathered, then the alternate drills, in like manner, are ploughed out,

and the whole affair finishes with a harrowing and gathering of the left tubers, the Potatoes are pitted and covered with straw and earth, and left until ready for sale. Tho only remedy for the Potato disease seems to be to plant early sorts in early season and in early soils, so as to obtain a ripe erop before the disease attacks it. The crop is taken after any Corn crop, and, being well manured and cultivated, occupies the place of a fallow crop, though it can hardly be called a restorative erop, in the rotation.

The most commonly grown sort is the Regent, a white round Potato, of which there are many varieties; the Dalmahoy is a very prolific second early variety largely grown in Scotland, and considered superior to, and rather

carlier than the Regent.

The Flourball and Fortyfold are two well-known varicties that are largely in demand, and are profitable sorts to plant; the Early Oxford is a white, round, early Potato, of abundant yield; the Fluke, is a flat Kidney of large produce, and good quality, and many other sorts might be named—the list extending to many hundreds in number. The sets for next year's crop should be well dried and slightly greened in the sun or day-light before being laid aside or pitted; and they are the better, too, for not being ent, and for being planted before the first growth of sprout is so long as to necessitate its being broken off.

The crop is to be lifted as soon as ripe, which it does not now so fully become as they used to do before the haulin was liable to be cut down by the disease.

The erop is grown after Corn, or after Clover, or after Turnips; and the latter is now a common place for it in the rotation, and the land is then in good heart for the crop, which it ought to be for what is really one of the most hungry crops of the rotation. The yield may be from 4 to 8 tons per sere; but the latter, formerly common enough, is now but rarely seen.

Cultivation of Grasses and Clover.—March and April are the most common seed-times for them. Italian Ryc-grass is perhaps better sown in early Autumn, and Trifolium inearnatum is commonly sown after a Cornstubble, as early as possible in Autumn; and these will be found referred to in the month of September. The other seeds, both Clover and Grasses, are generally sown down with the Barley-crop, and more rarely with the Wheat, or

even Oat-crop.

The perennial Rye-grass yields a more leafy and succulent growth in the cooler and moister districts of the country; on the dry hot side of the island it is common to sow Clover-seed alone; 20 lbs. of mixed Clover-seeds (10 lbs. of Red Clover, 5 lbs. of White Clover, and 5 lbs. of yellow) make an abundant seeding per acre. The bulk of the first cut is the Red Clover, with a little of the yellow; the bulk of the second cut is then White Clover, with a mixture of the other two. The Yellow Clover, or Trefoil, has a good deal of astringency in its character, of use in succulent fodder. When ent for hay, as it may be twice a year, it is mown in swathes, which are turned two days afterwards, and again after a similar interval, and then lifted into cocks, and carried next day, care being taken not to move the crop abruptly, or shake it much when nearly dry, as it will lose its leafy part, and be proportionally poorer in the rick,

Common or Italian Rye-grass is sown along with Clover; 12 lbs., or thereabouts, of the mixed Clover-seeds are sown along with two bushels of the Grass-seeds per acre. If the pasture is to lie down for two years, 2 or 3 lbs. of the Cock's-foot grass may well be added to the mixture, and 1 or 2 lbs, of the Cat's-tail may be added too, if the land

be stiff.

To our common Clover (Trifohum pratense and repens), the common Red and White, there is added now a variety of the Red Clover, called Cow-grass, somewhat more permanent in its duration, and on that account to be preferred, and the Trifolium hybridum, or Alsike Clover, imported originally from Sweden, bearing an appearance midway between the Red and White, of growth as large as the former, but perennial like the latter. These plants—four species of Trifolium (pratense, repens, hybridum, and procumbens); the Red, White, Alsike and Yellow Clover; two species of Lolium (viz. perenne and Italicum, the common and the Italian Ryc-grass); one species each of Phleum and Dactylis (viz. the Cat's-fail and Cock's-foot grasses)-constitute the material of the Grass-crops of our arable land, intended to remain down not more than three

For permanent pastures, a mixture, including other sorts, Festuca, Poa, and other Grasses, is sown generally without a crop of Grain, in suitable weather and early summer, rolled, manured, and afterwards, for several years, depastured, until a good sward has been obtained. The seeds chosen vary, of course, with the character of the soil, amounting in all to some 2 bushels light seeds, and 121bs. heavy seeds (Clovers) per acre, made up of seeds which vary from 5 to 8 lbs. per bushel, as in the case of Fox-tail (Alopecurus), up to 12 or 14 lbs., as in the case of Fescues, and 16 or 18, as in the Italian and other Rye-grasses, 8 to 10 lbs, of the Rye-grasses (common and Italian), 2 or 3 lbs. of each of 3 or 4 of the Fescues, 2 or 3 lbs, of tho coarser Fox-tail grass, 2 or 3 lbs. of the two Poas, smooth and rough-stalked meadow-grasses, 2 or 3 lbs. of Cock'sfoot grass, and 12 lbs. of mixed Clover-seeds, form a sufficient seeding per acre. These proportions, of course, vary according to the nature of the soil. Perhaps, however, one of the best plans to seeme quickly a permanent pasture is to cut up an acre of good Grass to and fro with a tool of the roller kind, having on it a number of sharp circular disks, separated by 3-inch "washers" strung upon an axle; then plough or pare the whole surface of the land about 2 inches deep, gather the whole of the surface, which will turn up in scraps of 2 inches square, into earts, and spread them out over 10 acres of a properly-prepared well-manured field, and tread them in right side up, one to every square foot. There will be 600,000 such bits off the acre, so that it will suffice for the extent; a roller follows, and then some compost may be spread, and a light seeding of good Grass-seeds sown and brushed in afterwards.

It is proper to add that Grass-seeds are very easily buried. Mr. Stirling, of Glenbirvic, published in the Highland Society's 'Transactions' of 1844 an account of experiments which proved that the lighter the covering of the seed (so that it was left just under the moist earth) the better. All the living seed came up which was not covered 2 an inch deep with earth; any deeper covering than this killed more or less of the seed, and if placed under 13 inch depth of soil, even though it was friable and well softened, all the seed perished. It is plain from this, that the proper way to sow Grasses is to place them equidistantly and evenly over the surface of a soil in perfect tilth, and then cover it or mix it with the top layer, by either the lightest possible harrowing, or a mere brushing in with the bush-barrow.

When sown not with the Burley, but over the young crop, after the seed has brairded, it may be well to cover it by hand-hoeing the intervals between the rows, thus killing the young weeds, at the same time as you cover the Clover

and Grasses,

APRIL.

During this busy month of the year, Oat and Barley sowing should be finished. All Clovers and Grasses too should be put in, unless, indeed, their seed-time be postponed until the autumn. April wheat is even yet sown, in late seasons,

Carrots should now be sown. Mangold Wurzel too should be got in towards the end of the month. Kohl Rabi may be sown in drill, or in a seed-bed for transplanting towards the end of May. A bed of Cabbage seed should also be put in. Land may be got ready for Swedish Turnips, which are sown by the end of next month; and Flax may be sown during April: Lucern and Sainfoin may also be put in.

The horse-labour of the month, therefore, includes all field work connected with these several crops, and the hauling of manure out to the fields where they are severally to be sown; also the horse-hoeing of the young Wheats and Beans, and

Peas, with Garrett's or other similar horse-hoc.

The hand-labour includes hocing of corn crops, gathering weeds and stones, spreading manure, dibbling and sowing various seeds. Potato-planting should be finished. Paring and trimming of turf may be carried on. Attendance on live stock is, of course, continued.

Culture of the Carrot.—The principal sorts in which Agriculture is interested are the large White Belgian, large Yellow Belgian, and long Red Altrincham. Of these the White Belgian may be considered the most productive, and being nearly equal in untrition to the Altrincham, is the one that is in the greatest demand for eattle food.

The Yellow Belgian is considered to contain more sac-

charine matter than the white.

The Intermediate Carrot is a useful sort for shallow soils. There is no difficulty in obtaining 15 to 18 tons per acre of the White Belgian Carrot, and enormously greater crops are sometimes grown. Thus, in the last number of the Agricultural Society's Journal, a crop exceeding 30 tons per acre is reported, which was sown so late as the month of May. The end of April is the best seed-time for the Carrot. If sown carlier, the land, still cold, does not start the seed, and it germinates so slowly that weeds get up and almost choke the plant. To hinder this, in the case of tardy germination, it is well to sow a few Turnip-seeds, or a few grains of Barley, along with the carrots in the rows, so that the position of them may be more early apparent, and then the hoe be set to work early enough to kill down the weeds. Carrots are grown on all sorts of soils, but of course, like almost all other crops, grow best in deep loams. The land should receive deep autumn culture, and the dung should be ploughed in then. The land, if clean, will only need a harrowing down some time in April, and after a dressing of guano, 2 or 3 cwt. per acre, it should be rolled down as hard as possible: seven lbs. of seed is then sown in rows 15 inches or 18 inches apart; and it may be well to mix the seed some days before with 2 or 3 bushels of damp sand, so us to hasten germination in the soil. The Sutfolk drill, without weights on its coulter, is then set to drill 2 or 3 bushels per acre in rows of the required distance apart, and the mixed sand and seed is thus placed in rows as shallow as possible in the land, and brushed or rolled in the intervals, and hoed repeatedly during the growth of the crop, and the plants are singled to 6 or 8 inches apart. They are dug up in October and November by the fork, costing for digging, topping, and tailing and filling into carts, from 18s, to 24s, per acre, according to the crop. They are especially useful for Wintercows, and for use in the stable.

Culture of the Mangold Wurzel.—This is still almost exclusively an English-grown crop. The climate which it likes is hottor and drier than that of the northern half of the island, and during the past year accordingly, which has been neither dry nor warm, it has not produced anything like so good a yield as it generally does. Its cultivation is nevertheless rapidly increasing here; and its large productiveness, its comparative freedom from the risks attending turnip-culture, and its fitness as food for all kinds known. There has been a long-continued prejudice against Mangold Wurzel as being fit food for horses, slicep, or cows, in farrow, lamb, and calf, under the impression that they caused premature labour and abortion; and secondly, against the use of Mangolds for any kind of stock, on the plea that early in the season they are rather physic than food. Both of these assertions have been disproved now by ample experience. When pulped and mixed with chaff of straw or hay, in proportion determined by experience, they can be given to feeding stock without any undue relaxation of the bowels: the dung shall be as firm as it is desired, notwithstanding a very considerable admixture of this succelent food, if only well mixed with the dry fodder;

and even without actual mixture, sheep, and ewes in lamb, have been folded early in winter upon Mangolds in the field, being well supplied with hay-chaff in troughs, with every proof of their being in excellent health and condition. Swine, too, have been fed in yards all the winter on vory little else than the half-rotten roots thrown to them from the heap, and no instance of abortion, and no instance of injury of any kind, has followed. The sharp weather of October 1859, by which such large quantities of Mangolds were spoiled on the ground, so that the farmer was induced at once to turn his stock on to them, that they might not be utterly wasted, gave a capital illustration of the fitness of the root for food early in the season; and though it will still remain the distinction of the Mangold Wurzel that it is available as food all through the summer of the following year, keeping sweet and juicy long after common turnips and Swedes have become dry and leathery and tasteless, yet the doubts of its fitness for food as early as any other root crop have long since been dissipated, and it would no doubt be possible (with the aid of a little fodder. to be consumed in larger proportions when the roots are first grown) to keep cattle well all through the year on Mangold Wurzel only. The sorts grown are very many: the globe-shaped varieties are better than the long ones, because the latter straggle over the ground above, while their roots are generally found to be more forked and ranging beneath its surface, so that they are more laborious to lift; and the globes are better also because of the smaller quantity of surface which is thus exposed to drought, and they remain juicy for a longer time next summer.

The Orange and Red Globes grown from well-selected roots transplanted on to ground well but not too richly cultivated, will yield the best crop; and when this selection has gone on from year to year for several seasons, the habit of good and productive growth becomes confirmed. Every seedsman thus gives his own name to seed grown in this way. The Elvetham, and other long red varieties, are preferred by many cultivators, and unquestionably, like all other well-selected seed of whatever sort, yield large crops.

The cultivation of the Mangold Wurzel is like that of Turnips; and as the stiffer class of soils may well be devoted to this crop, it is well to do as much of the cultivation of the land in autuum as possible. If possible, then, a corn stubble should be pared and burned, and ploughed and harrowed, and grubbed and harrowed and cleaned during October or early in November, and the manure, as heavy a dressing as possible, should then be spread broadcast and ploughed in. In March or early in April, this should be harrowed and grubbed and reduced to tilth without the use of the plough. A dressing of 2 or 3 cwt. each of guano, super-phosphate, and common salt may then be sown broad-east over the land, and the plough is then used to rib the land in drills at least 30 inches wide; the seed, 6 or 7 lbs. per acre, is then drilled on the top of the ridgelets thus formed, and rolled down. It should be placed not more than half an inch deep in the land. Each capsule contains 2 or 3 seeds; and 4 or 5 lbs, per acre is therefore enough, though the larger quantity is generally considered safer.

Or the land may be ribbed in autumn after the preliminary clearing, the dung being placed in the drills and covered by splitting the intervening ridgelets. The spring dressing of hand manures is sown broad-east over them, the intervals between the ridgelets are horse-hoed, and the double mould board plough sent down just to earth the

ridgelets up again, and the seed is sown as before. This is the best plan in the case of very stiff soils; or, if only one autumn ploughing be given, then the spring cultivation must be more elaborate, and one or two plonglings must be given in order to the thorough cultivation and clounsing of the land before, as in the former case, it receives the manure and the seed. This spring cultivation should be

confined to the lighter class of soils.

The seed may be dibbled instead of being drilled; and this is a very common practice: in this case, women or boys are furnished with a bag of seed and a blunt dibble; each stands on one side of the drill with the right foot upon it and the right hand over it; a small hole is made, and 2 or 3 capsules or seeds are dropped from the left hand into it, and covered by a sliding movement of the right foot, which half stands upon the place, while the next hole is made 15 or 18 inches farther on. This plan diminishes the labour of singling the plants, as they come up in small

bunches at the distance required.

By and bye, as in May and June, when the plants are tolerably well up, the horse-hoe is sent down the intervals between the rows, and women following with hoe in hand, singling out the rows or bunches, and the ridge is hoed clean of small weeds. The horse-hocing is repeated at fortnightly intervals during July and August; in fact as long as the growing leaves permit, and a second hand-hoeing clears the ground left by the horse-drawn tool. The erop must be harvested before frost. It is drawn and thrown in rows, and the leaves are cut off, and the roots are thrown into carts and drawn to heaps, covered with straw, and after lying a week to somewhat dry and hinder fermentation, it is covered up, and is safe till wanted up till late in the following summer; though, as already stated, it may be safely used at once. The crop may be from 20 tons (a fair crop) up to 40 tons, and even more per acre. There is no crop, unless it be the Italian Ryc-grass, which is so gross a feeder as the Mangold. Almost any quantity of farm-dung and ground and saft and superphosphate with it may be usefully applied, with the certainty of its producing a corresponding crop.

Flax Culture is diminishing in this country, notwithstanding every attempt to bolster it up. On rich loamy soils, after no matter what crop, if only the land be cleau and in good heart, Linseed is sown broad-east, 10 peeks per acre, early in April, and hand-weoded in May, and pulled as soon as the seed-bolls are brown in July. If the seed is allowed to become thoroughly ripe, the fibre is coarse. The largest sum of money, as a general rule, is made per acre when the plant is pulled at the earliest indication of ripeness of seed. The seed is got out by rippling as it is called, that is, drawing the plant in handfulls through an npright comb of teeth. The plant is steeped either for weeks in the dew, or for days in a tank of hot water; and, as soon as fermentation has released the fibres from one another, it is taken out, squeezed, dried, and scutched, to remove the bark and tow. The use of Linseed in cattle food is well known, and from this and the value of the fibre obtained, the profit of its cultivation is derived. The crop yielded may be 40 or 50 stones of flax and 16 or 20 bushels of seed.

Lucern,-It must suffice to say that 15 lbs. of seed sown about the middle of April in shallow drills 12 to 14 inches apart, on very deep loamy well-manured soil, especially if it contain enlearcous matter, will produce a most valuable forage crop; which in a mild climate will yield during the summer und autumn of the first year a good deal of capital food for cows and horses : which it will continue to do during the following six or seven years, if kept clean and occasionally tilled between the rows and ma-

nured.

Sainfoin is a forage crop of calcareous districts. On the oolite and chalk it is the best forage crop we have. Four, or some sow tive, bushels of the rough seed is sown per acre with barley or oats taken after a fallow crop which has thoroughly cleared the land. The crop may remain good for several years, and is ultimately ploughed up for wheat. Any patches of root weeds, being dug out first; or if very foul, as it often becomes, it is sometimes pared and burnt and sown with turnips to be fed off, and followed by barley and spring wheat.

MAY.

In this month we finish Mangold Wurzel sowing, and we prepare the land for the Turnip crop. This, with continued hocing of all growing crops, and possibly folding or mowing a too luxuriant growth of wheat, is almost the entire occupation of the month. In Scotland May is the seed-time of the Swedish Turnip, and in England it may be sown in the latter part of the month. It is, however, better to delay the seed-time till June, as too early sowing results often in our hotter climate in premature ripeness, and consequent mildew.

The Horse-labour in May accordingly includes all field operations in the Turnip fields, horse-hocing Beans, Corn, Potatoes,

Carrots, and the earlier Mangold Wurzel.

The Hand-labour includes singling Carrots and Mangold Wurzel, Carrots and Parsnips, transplanting Cabbages and Kold Rabi, and hand-weeding Flax, mowing Trifolium, Rye, &c., as folder, and attendance on five stock.

Mowing Luxuriant Wheat.-Our best crops at this time of the year completely hide the ground, owing to the haxuriance of their growth. This does no harm in dry weather, but the leaf hides not only the ground, but tho stem of the plant, so that it is liable to become blanched, and to be weak and over-succulent. After a shower at this time of the year, when every leaf is bowing under the weight of rain-water, on looking towards the sun at a promising field of wheat you will see its light reflected towards you in an unbroken sheet, none of it finds access to the lower parts of the plants,-the leaves get it all to themselves, and, as a consequence, they grow luxuriantly, increasing in length, and breadth, and weight, until with the load of water which the weather sometimes lays upon them, they ultimately become too heavy for the weak herbaceous stalks below them, and the plants are laid flat on the ground, to the great injury of the farmer. It is a common practice to sow salt over too rich fand in Wheat, or at seed-time, under the idea that its soda wifl enable the extraction of the silicates of the soil, and consequently induce

the deposit of a large quantity of silica in the straw of tho ripened crop, which will thus be better able to stand. It is however certain that this process is effected, if at all, towards the harvest time, and that salt does little or nothing to remedy this liability to being laid early in the season. The only remedy, then, is to induce the hardening and wood-making process in the stems of plants. Now the deposit of carbon, in which this essentially consists, takes place only in the sunshine. The earbonic neid of the air is absorbed by feaves and decomposed in tho sunlight, its earbon being deposited wherever the sunlight falls, and the oxygen being given back to the air. Any growth in the shade is more or less blanched; and while one immediate advantage of mowing off the heavy flag of Wheat at this time of the year, or earlier, consists in tho plant being at once relieved of a heavy overhanging weight which bears it down, the chief advantage is, that the light has leave to play upon the soft and succulont stem of tho growing plant, which thus becomes carbonized and hardened, and enabled better to withstand the weather. It is easy, by examining a plant very early in the season, to ascertain the position of the young ear, and the flagging may be easily done without injury to it, either by hook brandished horizontally to right and left, or, even when the plant is very thick and very succulent, by the seythe. The necessity of a hardened stem, and of letting sunlight play upon it, is an argument for their sowing at wido intervals.

Green Manuring.—It is not generally at this season of the year that plants are sown to be ploughed in, because thus early you can sow seeds whose produce shall deservo a better fate; nevertheless we may refer to the practice here as oftentimes furnishing a cheap and efficient method of fertilizing the ground. If the ground is poor after a corn-crop which has been early harvested, you can often get, before winter, a luxuriant growth of vegetable matter which, then ploughed in, shall be a useful contribution of fertilizing matter towards a green crop in the following year. The practice of ploughing under a growing crop to rot in the land and supply organic matter by its decomposition there, is chiefly adopted on very sandy soils, which are either deficient in organic matter, or in which (hungry soils as they are called) it rapidly rots and disappears. For this purpose the succulent White Mustard, the Cameline, another cruciferons plant, or Ryc itself, may be some-times used. The ordinary plan is to sow it broadcast, and plough it under by the aid of skim coulter and heavy chain dragging from the beam of the plough, by which the whole growth, though it may be two feet high, is buried perfectly; and it should be done before the plant comes into bloom. The practice of green manuring is of the same fertilizing kind as the ploughing under of Clover-root or old sward, which everybody knows to be the richest kind of dressing that can be. But for special green manuring special crops aro grown, such as Italian Rye-grass, Clover, Buckwheat, Lapine, Ryo, Spurry, Rape, Mustard, Vetches, which have all been used for this purpose; many of them, as the two first, and Ryc, Rape, and Vetches, are better used as food for sheep folded on the land; and the Lupine, too, has latterly been warmly recommended for this purpose on all very light sandy soils. Sometimes, however, it is not convenient to procure stock for the consumption of a green crop, and then the cheapest way of making use of it, and adding to the upper soil, where it will be immediately available, a storo of valuable matter, which has been taken from the air and from the subsoil, is to plough it under.

The Lupine has been recommended to be sown about one bushel per acre, rather in June, however, than in May, in rows twelve inches or more apart, on light sandy soils. The horse-hoe will keep it elem, and sometimes a large produce of valuable seed is obtained, of great value as food for stock, while the green plant, if fed down, is a capital forage for sheep folding, or for any other kind of stock. Mr. Crisp, of Butley Abbey, states in a recent number of the 'English Agricultural Society's Journal,' that he obtained fifty waggon loads of sheaves off eighteen acres sown with eighteen bushels, and that the quantity of grain was

estimated at forty to fifty bushels per acre,

Kohl Rabi.—This has latterly become a more favourite crop, owing to the failure of Turnips, and the large produce which some growers have obtained. Mr. Lawson, in the 'Agricultural Society's Journal,' calls it the root of dry summors; but it seems during the past year to have been less injured by the excessive wet and cold than many other sorts. When Mangolds and other roots have been universally small, the Kohl Rabi does not seem to have suffered in the least. It is either sown in seed-beds in Murch, April, and May, to be transplanted respectively in May, June, and August, or it may be drilled in rows where it is finally to stand. If sown in seed-beds for transplanting, a pound of seed, or thereabouts, sown in a wellprepared bed, will furnish plants for an acre. If drilled on the land, four pounds per aere will be needed.

Kohl Rabi prefers the heavier class of soils, which should be reduced to thorough tilth, and richly manured during autumn. The plant will benefit by dressings of superphosphate. Seed sown early in March will furnish plants ready to transplant early in May. When drilled in the field, they may be sown in rows twenty-six or twenty-seven inches wide, and singled out to filteen or sixteen inches, as for Mangold Wurzel. The produce is large and good for cows; and, so far as analysis can determine, it is more nutritive. It is hardy, and withstands any frost; and while past experience proves it well adapted for dry summers, that of the past has proved that it flourishes in

watery weather also.

The Cabbage is a useful field plant, grown largely for this purpose in North Lincolnshire and elsewhere, on clayey soils. The land is ploughed and manured in autumn in raised drills, into which the plants are dibbled about midsummer, the work being generally contracted for, labour, plants and all, at about 25s, per acre. If Drumhead Cabbage-seed be sown in beds late in August and pricked out into other beds in November, and again planted out in the field in February and March, they will

be ripe and fit for use in early autumn.

If sown in April and May, and transplanted as soon as big enough, which is the practice on the clay soils of North Lincolnshire, they furnish ample store of winter food. The Cabbage likes a stiff soil, and all the cultivation for it should be done before winter. A very large produce, sometimes exceeding forty tons per nere, is obtained. The rows may be three feet wide, and the plants two feet apart in the richest land; but other and smaller intervals may be adopted if the land is not in such good condition. The Drumhead is the best sort, producing a substantial and firm mass of food. The Thousand-headed, also a field Cabbage, has an open growth, and must be folded on the ground or cut as forage, as it cannot be stored.

Buckwheat is sown one bushel per acre in rows twelve inches apart, in the middle of the month of May, on any light free soil. It is not a desirable crop, except for poor sands, and as a produce worth growing for poultry and for game, unless indeed, as already said, it be grown as a green crop to be ploughed in.

JUNE.

Turnip Cultivation is the great business of this month in England. In Scotland, the latter part of May, or indeed as carly in the month as possible, is the best seed-time for the Swedish Turnip, and then the Hybrids, Hard Yellow Turnip, and Soft White Turnip, follow in succession. Rupe, too, may be sown this month; Mangold Wurzel, Carrots, and Parsnips may be horse-hoed and singled. Cubbages and Kohl Rabi continue to be transplanted. Clover is mown for forage; Vetches, too, are mown and carried to the feeding-stalls and stables, care being taken, when they are still very young, to let them wither for a day in swathe before being given to horses.

The Horse-labour in June accordingly consists of ploughing and cultivation in the Turnip-field, and carrying of manure

and green food.

The Hand-labour includes hosing, weeding, &c., of the growing crop, and dung-filling, &c., connected with Turnip culture. Sheep are washed and shorn in May and June; and Dairy operations are at their height.

Turnip Culture .- By the introduction of the Turnip into cultivation, the relations of agriculture has been entirely altered; and though the Mangold Wurzel, Kohl Rabi, Carrot, &c. are now to some extent taking its place, yet the credit of an entirely altered system of arable management is due, in the first place, to the Turnip. We now make more meat on plough-land during the winter months than during the summer; a thing which is certainly very different from the agricultural experience of half a century ago. Formerly men lived on salted meat in winter time, and summer was the only period of the year during which cattle fattened. Now winter is, on avable farms, the great feeding and manure-making period of the year, and the growth of grain crops consequent upon the improved management of our arable land has enormonsly increased. The more cattle the more corn is a true adage, which has been wonderfully illustrated during the past which has been wonderfully illustrated during the past century in our own country; and it is now also being gradually illustrated in France by the gradual extension of the means of feeding a greater herd of live stock.

The Swedish Turnip and the Common Turnip are two distinct species of the genus Brassica, characterized, the one by its smooth, and the other by its rough leaves when fully grown. Of the Swedish Turnip there are ten or twelve sorts, and new ones are every day coming into fashion. Among these are Skirving's large and somewhat coarse variety, solid, succulent, productive, but running rather too much to neck and leaf; Laing's nenter, not so large, with leaf entire, and feathered down to its junction with the bulb; producing fewer tons per acre of a softer-fleshed root; Carter's Improved London, a smaller root; hard, crisp, jniey, hardy, in every respect first-rate, running less to seed, which is indeed another of its merits, can be recommended as the best Swede in enltivation; the Common Green and Purple Swedes, both good old-fashioned sorts; and many others introduced by the different seedsmen, and improved by constant selection, until the produce is believed to deserve their name, and thus add to the reputation of the farmer who had introduced it. Of the Common Turnip, again, there is an even greater number of varieties, Globe, Flat, and Tankard-shaped, Green, Red, and White, hard almost as a Swede, and so soft, in some few cases, as to disappear under almost the earliest frost. Among these we may name Date's Hybrid, the Aberdeen Green-top and Purple-top Yellow, the Green-top White Globe, the Lincolnshive Red-topped Globe, the Green and Red Tankards, the large White Globe, or Norfolk Turnip, often reaching 20 lbs, apiece, and the Common Stone and Stubble Turnips, are rapid growers, and therefore fit for sowing later than any other. Of these, we sow the Swedes first, not earlier, however, than the last week in May in England; the hybrids next, the Yellow Turnip, all of good solid flesh, often the hybrids and the Soft White Rounds, and Tankards last, even so late as September, on a properly prepared corn stuhlle. And these roots are consumed in the reverse order of succession, the soft Whites being consumed first, the harder Turnip next, and the Swedes last. In Scotland, the Common Yellow Turnips are kept on, and remain good till much later in the your than in England, and all these sorts are more nutritive there than in the South. There is no such thing here as fattening cattle on Turnips and straw alone, which is practicable

A great deal hinges not only on the selection of a good sort of seed, but on choosing it when it is perfectly grown. When the seed is gathered from a late-sown crop left to seed, which had been intended to be consumed upon the ground, and is thus taken from the ordinary run of roots, it is not so good as when grown from selected roots transplanted into fresh ground, and thus taken out of the natural and wild style of reproduction, which tends rather to permit the plant going back to the original wild type. The principle that plants bring forth " of their kind" should be acted upon, in order that the best kind only may be reproduced, and this can only he effected by choosing the hest-formed roots, whether they be Turnips, Mangold, Carrots, or Parsnips, for seeding.

The cultivation of the crop is in this wise:—For the stiffer class of soils as much is done in Antunn us possi-

ble; and whether the crop is to be grown on raised drills or in rows upon the flat, as much as possible is done to clean the land and manuro it in the Autumn. If the former plan be adopted, as soon as the Wheat or Oat erop is removed the land is searified, and harrowed, and raked together and humed; and if fonl, it is ploughed, and harrowed, and rolled, and grubbed and weeded repeatedly, until cleuned. If already clean, the use of the scarifier and harrow is alone needed until the land is ribbed up by the plough for the reception of the manure. This is then carted out of the yards and stalls on to the lund, spread in the drills, and covered by splitting the intervening ridgelets, and left till April. Whatever artificial manure it may be intended to apply is sown broadcast, then, over all, and the land may then be slightly harrowed down, the horse-hoe put through the intervals between the drills, and the land then ridged again by the plough, and the Turnip-seed sown towards June, with a greater chanco of success than it would have had if the whole cultivation had been left till Spring, or if the land had been ploughed again after Winter, thus turning up clay soil maffected by the frost, which would have to be reduced by the harrow and the roller, with small chance of so fine a tilth resulting as is produced by the action of a Winter's weather.

On the ordinary Turnip (i.e. lighter) soils the stubble is first ploughed after harvest, and the land in Spring is harrowed down and cross-plonghed, and soon brought to tilth and cleamess, and then it is ribbed up for the manure; the gnano and the superphosphate is sown broadcast over the open drills, with the mannre in them, and the whole covered up as hefore by the donble-mould board plough, so that the artificial mannre, while partly spread throughout the soil, is brought for the most part pretty much into the centre of the future ridge on which, as in the other cases, the seed is sown in May and Juno. From two to four pounds of seed are sown per acre by the double Turnip drill; and if there be any chance of drought, it is at once rolled down by a light wooden roller immediately after sowing. And in a couple of weeks or so the crop is into rough leaf, and the plant is comparatively safe from the Turnip-fly. The attacks of the fly are most severe during the existence of the sweet first leaf of the plant, and very often the crop is then destroyed by Various expedients have been devised and acted on with more or less success for evading this pest. The period of danger should, by using foreing manure, and by thicker sowing, and also by sowing by the water-drill, be shortened. The flies themselves, too, are often directly attacked by contrivances, such as drawing a painted board over the rows, to which the insects adhere, as they jump on being disturbed.

Mr. Rowley, too, hus devised a dusting drill, by which lime-dust and soot may be thrown down upon the rows over which it is drawn in the dewy morning, when all this dust will adhere to the leaf. Major Munn has contrived a set of revolving brushes, by which the insects are gathered up and carried away. It is, however, we believe, an almost hopeless task to attack a great plugue of Turnip-fly directly in this way. And the only hope to which any probability attaches, is that hy hastening the growth of the plant it may be hurried out of danger's way. Mr. Poppy, indeed, has asserted that the fly is much fonder of Common Turnips than of Swedes; and he alleges that by sowing an occasional row of the former in the midst of the latter, he has confined the attack of the fly to this decoy plant until the main crop of Swedes has grown out of reach of injury. After this, however, the Turnip-erop is still liable to destruction by various caterpillars. This, however, is generally after the plant has grown a good way on to maturity, and hefore then the crop has to be singled. The distance to which the plants should be separated in the rows is a point on which local experience can alone be a guide. They are generally singled out from 10 to 12 inches apart, and it is evident that if, by giving them greater room, you can in that proportion in-

erease their diameter, you by so doing obtain a much greater increase of weight per acre than if by leaving them nearer one another, you merely increase their mun-ber. A crop twice as thick on the ground of the same size would be only twice as heavy, but a crop the same in number, but twice as thick individually, i. e. of twice the diameter, would be eight fimes as heavy; the bulk and weight increasing of course as the cube of the diameter, while it only increases simply in proportion to the number, so that the room given them ought always to be such as shall afford full scope for the largest growth to which the other circumstances of the crop may lead. About 12 inches apart is a good distance. The intervals between the drills are first horse-hoed, or pared with a onehorse plough, leaving abrupt ridge-lines on which the row of young plants is growing; and the hand-hor, by alternate push and pull, bevels this abrupt ridge down, and leaves solitary plants along the ridge-line at intervals of about a foot. This is done by women or boys, at the cost of about 3s, or 4s, an acre. The plants are left till the surface of the land again cakes over by the weather, or again exhibits weeds, and then it again requires a horse-hoeing or hand-hoeing. A deeper stirring than the former horsehoeing is then given, and in a few weeks repeated, when the leaves should meet in the drills. This they will do early in August in Scotland, and perhaps not till September in the South. And it may before this have exhibited signs of mildew, which is generally prevented by avoiding too early sowing, and adopting everything, whether of the nature of tillage or mannre, which shall conduce to the persistent vigour of the growth. Even then the crop is liable to result in worthless produce, owing to the disease called finger and toe, generally the result of the absence of lime from the soil. It consists in a forked stanted growth, covered with warty excrescences, in which ultimately grubs and rottenness appear. To diminish the frequency of the crop on the land, to apply lime, and to use every other means of scenning rapid and luxuriant growth, is the way to reduce the chance of attack by this disease to a minimum.

The liability to this disease, or at least to that degenerate form of the root, which is one feature of it, is mereased by the use of carelessly grown seed. If, as has been already said, Swedes are sown late in the year, and left a small and ill-formed growth over Winter where they grew, and the seed be reaped next year and sown for the following crop, it is more likely to yield a forked stunted crop than if the seed-crop had been sown in May, attained its full growth, been pulled and pitted, and afterwards selected and transplanted and perfectly cultivated, yielding seed which carries in it a tendency to reproduce the well-formed roots from which it sprung.

When the crop is ripe, it is left there and folded over with sheep, or it is half carried home to the yards, the remainder only being consumed upon the ground, or it is wholly pitted on the ground and consumed there by sheep folded later in the season; or it may be wholly carried home to pits for consumption by cattle in boxes, and stalls, and yards. The cost of pulling Swedes and Mangold Wurzel varies from 6s. to 10s, per acre, including for that sum the labour of cutting off the tops and filling the roots into the carts. They are either pitted in long ridge-like heaps on the ground, and covered over with straw and earth, or they may be placed between parallel rows of hurdles, eight or nine feet apart, and thatched

over; another double row of hurdles being placed about a foot from the first, and treated in like manner, and the intervals stuffed with straw, and the heaps roughly thatched over, the bushy caves of the thatching interlocking over the intervals. The three great requisites of ventilation, warnuth, and dryness are thus sufficiently secured.

There are many other methods of Turnip culture besides the one described. It is more common in England to sow the seed in drills 18 inches apart on the flat, the land having been first cultivated and manured either in Autumn, or partly in Autumn and Spring. This is a sufficient width for a less perfect horse-hoeing, and in dry seasons it is perhaps preferable as being a less exposure of the soil to drought. And it is becoming more and more common to put in the seed with the water-drill, which deposits both manure and seed in a manner calculated to induce immediate and rapid growth—an apparatus for throwing liquid manner at a constant rate, or mere water containing superphosphate, or gnano half dissolved and half suspended, though it is conjoined to a common Turnip drill, so that the mixture is thrown down in rows upon the land as the drill is drawn over it. It is also more and more common in England to depend on superphosphate and lime-dust alone, or with ashes, for a crop of Turnips, applying almost all the farm manure on the Clover-stubbles for the Wheat-crop.

In Scotland, on the other hand, it is preferred not only to apply farm-yard dung, in itself a nitrogenous manner, almost exclusively to green crops, but they even prefer guano, a still more nitrogenous manure, as an adjunet, instead of the superphosphate. It is also common in England to sow Turnips broadcast on the land, which, at best, is a careless method of Turnip culture, and only defensible in the case of Stubble Turnips, where a crop, partly of bulbs and partly of greens, is available in Spring for Ewes and Lambs. The different sorts of Turnips vary a good deal in the proportion of water which they severally contain, and still more, therefore, in the residual proportion of dry matter in their substance, on which almost alone, of course, their relative nutritiveness depends. This varicty hinges not only on sort, but still more on weather, and the other circumstances of growth. And the proper manuring of the Turnip-erop, in order to obtain a healthy growth, is therefore of importance,

Mr. Nesbit declared before the London Farmers' Club that he had ridden through a crop, his horse stambling over hard and firm roots, during one-half the field, and going smash through, almost constantly rotten bulbs over the rest of the field; and the line separating the two was where the superphosphate made from bones used in onehalf the field was separated from the superphosphate made from coprolites used on the rest of the field. The former contained all the other ingredients needed by the growing plant, the latter resulted indeed in a rapid and stimulated, but unhealthy, because imperfect growth. And it is very possible that a lopsided manuring, as it may be called, one in which all the elements wanted are not evenly supplied, may be productive of that unhealthy growth to which Mr. Nesbit referred. The influence of climate on the crop is a more obvious thing still. The slower and more continuous growth of the crops in Scotland results in the production of something very different from an English Turnip. The latter is useless as food soon after the beginning of the New Year, while the later remain good till late in Spring.

JULY.

The work this month, excepting the continuance of turnip culture and the horse-hoeing of root crops, is more on the pastures and clovers than on the arable land. Haymaking, with perhaps the earliest of the corn harvest, in the shape of pea and bean cutting, occupy the hands.

The Horse-labour is thus lighter in July than in any other month of the year. It includes repeated horse-hocing of the different green crops. Sowing of wheat may be called "stolen" crops, i. e. after Vetches, Ryc, Italian Rye-grass, and other

early forage crops. Carting of hay, and of various other materials, lime, drain tiles, wood materials, which, as horses are at leisure, may be more easily done now than at any other time of the year. Any work of the nature of bare fallow is carried on during July.

Hand-labour is almost exclusively confined to hay-making and various hoeings, with the earliest of the harvest and Flax pulling, Bean and Pea cutting, and perhaps Rye cutting, if any is left to seed.

Rape Culture.—This is sown to some extent on most kinds of soil, but it is especially the green crops of our fen districts, yielding a thick juicy succulent stem and leaf, much more nourishing than any turnip that cau be grown in such circumstances. 4 lbs. or thereabouts are sown per acre, in rows 15 inches apart, on the flat. It receives a very imperfect hand-hoeing and singling, and except horsehoeing, very little other cultivation during its growth; and it yields a very large bulk of succulent food of much greater value for sheep feeding per acre than the Turnip or the Mangold Wurzel, growing sometimes so high that even the tall upstanding Lincoln sheep is hidden in it. A good crop will keep 16 to 20 sheep from October till February per acre.

"Stolen" Crops.—Rape may be considered one of them; but the term is generally applied to those crops, as Rye, Vetches, Trifolium incarnatum, &c., which are sometimes taken on a corn stubble, and fed or cut before a late turnip sowing. It is proposed to refer to them here, notwithstanding that it is generally later in the year that they

(1) Rye is sown as a stolen crop on any corn stubble, which should be ploughed under and harrowed, and if possible manured. Three bushels are sown broadcast—a thick plant is wanted—and being sown early in October it covers the ground before winter, and produces our earliest spring fodder. Mr. Taunton some years ago advocated a variety called St. John's Day Rye from its being capable of being sown so early as St. John's Day, and forming a bulky growth above the ground without starting the ears before winter. It is cut in March and April for forage, and carried to the stalls, or it is folded over with sheep. It is adapted to light soils, and will yield on our poorest soils a heavier crop of grain than any other of our cereal grasses would produce. The land is cleared in anyle time in May for sufficiently thorough cultivation, to ensure an early enough seed-time for common turnips, or

even for summer vetches. (2) Vetches are sown in October, drilled in by the Suffolk drill, in rows 6 iuches apart, 3 or 4 bushels per acre. If the Winter Vetch is sown, the seed-time is as early as possible after harvest on any corn stubble, properly manured and ploughed, and the yield in April and May, cut while in blossom, is capital food for all kinds of stock. It is, when cut young, extremely succulent—too much so for use in the stable, unless allowed partly to wither before being given to horses. It is best grown on the stiffer class of soils. On light soils, although it yields well even there, yet its fibrous root so loosens the land as to injure it for the succeeding wheat crop. The Winter Vetch is mown off the land in time enough for a later-sown crop of Turnips, which should be folded ou the land, and then followed by barley. Spring-sown Vetches are sown just in the same way, 3 bushels or thereabouts per acre; only they cannot be called a stolen crop, being taken as the main produce of the season. They may be seeded, and will yield from 3 to 4 quarters of seed per acre. Mr. Shirreff, of Haddington, introduced a white-flowering Vetch of great luxuriance of growth, which is superior as a forage crop to the commou kinds. It may be mentioued here that the use of the water drill is especially adapted to secure a crop of Turnips after stolen crops. Such crops leave the ground of course hard and dry, compared with the land which has been fallowed during Autumn and Spring; and the drought of the later season, when alone Turnips can be sown after them, added to the natural dryness of the soil, often spoils the prospect of a turnip crop altogether. If properly ploughed up, however, and manured, and reduced by cultivator, clodernsher, and harrow to a certain degree of tilth, the water

drill will moisten the land enough to ensure the germination of the seed, and a crop is generally obtained.

(3) Trifolium incarnatum.—This, a hardy coarse crimson flowered clover, may be sown as early as possible after the Wheat or Oats is off. 24 lbs. of seed are sown broadcast over the stubble, and if rain has fallen, the harrow will scrape earth enough up to cover the seed, which seems to find in the hard land a more congenial seed-bed than when pains have been taken to manure and cultivate the soil. It sprouts and covers the ground before Winter, and forms a bulky coarse produce in April and May next year, which must be consumed during the time it is in flower, or it will become so hard and woody that it is indigestible and distasteful. It is only during a short time, about a fortnight, that it is fit for food; and a small portion only on any farm is all that is necessary. But Messrs. Vilmorin, of Paris, have introduced two other sorts of this Trifolium, oue a white-flowered variety, and both of them much later than the common T. incarnatum, and thus three times the extout of land may be usefully devoted to this crop. Sown the same day, they will come to maturity at intervals of a fortnight from one another; and when the common sort is just going out of bloom, and the last of it therefore is being cut, the second sort will be in full succulence and at the height of its value, while the third, ready to succeed it, is hardly yet in bloom. All these sorts, like Rye and Vetches, may be followed by late-sown Turnips; they make very coarse hay, and are best consumed as forage, and so long as it is succulent, sheep and all other stock will cat it greedily: 12 to 20 tons of green food per aere may thus easily be grown. If consumed by sheep, they should be folded on the field. The plough follows as soon as a furrow from end to end of the field is possible, and its consumption leaves such a dressing of dung upon the land that 2 or 3 cwt. of superphosphate, sown in the water drill with the Turnip seed, will secure an ample crop.

Haymaking.—If every blade of grass could be exposed as soon as cut to a temperature somewhat under that of boiling water until perfectly dry, and theu packed away under a water-proof roof, the hay would be as good as such grass could yield; the whole nutriment which the grass contained would be present in the hay, undiminished by washing or by formentation. For the best hay there is needed the best grass, cut when containing the greatest quantity of nutriment, and dried rapidly and perfectly. To this end the grass fields of Herts, Middlesex, and Surrey, where the best hay is made, are cut soon after they are in flower and perpetually tedded and shaken out, no two blades being allowed to stick together while drying. The hay, with certainly a little loss of colour, is thus simply dry green grass. It heats hardly at all when put together, and so far as the food is concerned that was in the field, it is all and undiminished in the rick. Just in proportion as it resembles this, is hay-making good. Mr. Baldwin's, of Glasnevin, essay on this subject was published in the Spring by the Royal Dublin Society, and may be consulted with advantage. It recommends Italian Rye-grass to be cut on the appearance of the flower, as a second and third cutting is obtained if not allowed to seed. Common Ryegrass should be allowed to form its bloom. Clover should be cut when in full bloom; mixed meadows when the carliest grasses, as Anthoxanthunu, have formed their seed, the bulk of the grasses being then in bloom. Grass is cut cheaper and better by the horse-drawn mowing machine than by the scythe. There is great loss of the nutritive part of grasses by long exposure in field. As soon as it is made, hay should be carried to the rick : leaving it out in wind-cocks for weeks before being finally carried home, results ui the formation of a lot of comparatively worthless

washed outsides. Mr. Baldwin estimates the loss as follows: -Within the last three or four years we have made agricultural tours through 25 of the 32 counties of Ireland; and from careful consideration of the subject, and having in some instances used a tape-line and weighing-machine to assist our judgment, we have come to the conclusion that one-twentieth of the hay crop of Ireland is permitted to rot in field cocks. The portion on the ground, as well as that on the outside of the cocks, is too often only fit for manure. And the loss of aftermath, and of the subsequent year's erop (if hay or pasture), suffers to the extent of from 6d. to 1s. per aero. If we unite all these sources, the loss sustained annually in this country is something serious to contemplate. On an average for all Iroland, it is not under 20 per cent., or a fifth of the actual value of the erop. We have about 1,500,000 acres under meadow in Ireland, the average produce of which, last year, was 2 tons per acro. The total produce of hay was 3,000,000 tons, the value of which, at the current rate, would be, at least, £12,000,000; one-fifth of which (£2,400,000) is, as we have shown, lost by mismanagement to the Irish farmer.

Bean and Pea and Flax Harvest are referred to in the months of February and April, where their cultiva-

tion is discussed.

AUGUST.

This is the harvest month. Wheat, Oats, Barley and Beans are being cut by hand and horse, and carried home as soon

as ripe.

The Horse-labour accordingly, excluding such horse-hocings of green crops as still continue, is almost entirely confined to harvest operations. The reaping machine is being drawn or pushed, and the harvest eart or waggon is at work. The plough, too, is set to work as soon as the stubble is cleared, in preparation for Winter Beans and Ryc and Vetches; and the ploughing of clover leas, either with or without a previous dressing of manure, goes on when possible for Wheat.

Hand-labour reaches in this month its greatest agricultural activity and intensity throughout the year, and accordingly

wages are at their highest.

The Cereal Grains and Harvest Operations.-There are some particulars in the management of our cereal grains in which they are alike, and of which therefore a statement common to all of them may be made. All our White corn crops come generally in our rotations after green erops or manured fallow crops of some kind or other. Wheat succeeds Fallow, Clover, Beans, Turnips, Mangold Wurzel, or Potatoes. Oats come after Turnips or Potatoes or Mangolds, or newly broken up land or Clover. Barley generally comes after Turnips. The four-field rotation, Wheat, Turnips, Barley, Clover, is the general rule in England.—(1) Wheat or Barley; (2) Clover and Grass seeds; (3) Oats; (4) Turnips—or (1) Turnips; (2) Wheat or Barley; (3) Grass; (4) Oats; (5) Beans or Peas; (6) Wheat—are common rotations in Scotland. The cereal erops are generally considered the exhausting crops of the rotation; but it is evident that this depends on the cultivation to which the land is subjected during their growth, and on the use that is made of their produce. This idea nevertheless rules our rotations, these crops being taken when the land is, by previous treatment, at its best, and being followed by crops whose management restores the richness of the land. There are exceptions to this rule, but they obtain only where the land has acquired too great richness and needs depletion, or where it is in the hands of its enemies, i. e. of those who, having the power, aro disposed to beggar it. In the fen districts of England Cole seed or Turnips are followed by Oats, and that by Wheat; the extra tendency to straw being taken off by the less valuable crop of grain, and so a possibility of a standing Wheat crop being obtained: and thus again, in the best managed land under the four-field rotation, that system is being modified by Wheat being taken after Turnips and followed by Barley. After folded Turnips, Wheat is found to be the best standing crop, and the Barley finds after it quite enough food to yield a crop without its being of so luxuriant a growth as to spoil the sample. Apart from these exceptions, however, the place of all these crops in the rotation is, and onght to be, after a manured crop, such as Turnips, Mangold Wurzel, or a crop which by its growth feeds the land, as Clover does; the clover root being in effect a liberal dressing of the soil.

The next general aspect of these crops is that presented by the question which has latterly excited a good deal of discussion, namely, thick or thin seeding; but it is not worth while discussing this question on general principles; it must suffice to refer to the data furnished by experience, with reference to each particular crop of the series, and this is done in the paragraph descriptive of each.

The cultivation proper to these crops is much alike, excepting the seed-time. The seed is generally sown in rows from 6 to 12 inches apart; the fields are harrowed or hoed when the crop is up, and they may be rolled or not, according to the condition of the soil. The crop is hand-weeded, if necessary, before coming into ear, and even after, if much weeds or the wild oat exist among it, which can bo distinguished only after earing: and the harvest operatious are pretty much alike for all.

Harvest-work in the corn-field is done either by contract or at days' wages; and the price per acre varies from 8s. to 12s., and even more per acre, according to the bulk of the erop. The corn is either mown, or reaped, or bagged. If mown to tie, it is best mown up against the standing corn, as otherwise the scythe is apt to cut the ears from the straw, as each new stroke is driven up against the swathe. A strong lad follows each scythe and gathers the corn in sheaves, laying them upon ties which have been pulled and placed by a child preceding him; another lad or woman ties: a man, two strong lads and a child thus make a

party.
In "bagging," as it is called, a heavy hook is used: a wisp of straw is cut first and doubled up, or a stick is used instead, held in the left hand, and with the right the heavy hook is driven against the corn close to the ground, and so, by successive strokes, the corn is cut, perhaps a foot deep, up against the standing crop; the wisp or stick in the left hand serving to guide it to a standing place as it leans against the crop. A dozen such strokes will clear 3 or 4 yards in length, and the workman returning backwards upon his work, gathers what he has cut against his leg into a sheaf, and places it on a tio that has been pulled for him, and laid convenient.

In reaping, each man is of course more independent, pulling his own tio and making his own sheaf; though here also it is usual to have a bandster, who ties after several men or women. The sheaves should be about 10 inches in diameter, and as nearly as possible the full length of the straw. They are set up six of a side in shocks or stooks, with two head sheaves, butt to butt, over them, as a roof; or they are sometimes set up only two of a side, with two small sheaves overhead, hanging, ears down, and tied to-gether by a band, as is the practice in some parts of the midland counties. It is the general practice in England to mow the barley and leave it in swathe; but where the erop is tall and bulky, it is better tied in sheaves, whether it be oats, barley, or wheat.

The whole practice of harvest work is, however, being altered by the use of the reaper; which, as in the case of Bell's or Burgess's, leaves the corn in swathes upon the land, and in that of Dray, Cuthbert, Gardner, Wood, and many others, leaves it in rather roughish bundles, to be gathered up and tied in sheaves. In all cases the corn should be cut and tied when dry; and this, in the case of most of those machines which have no side delivery, or one not far enough to move the corn out of the way of the horses on their next bout round the crep, needs to be done at once. Two horses (or a changed pair) may thus cut from 8 to 12 acres a day, and save the labour of 8 to 12 men.

The cost does not exceed from 5s. to 7s. an aere; instead of from 8s. to 12s. or 14s., which is the more common experience in the case of hand labour; and in every case a portion at any rate of the work should be done by contract, so as to make it the interest of the men to hurry on as fast as possible. The work of carrying away should in any case be done by contract. One man pitching to cart or waggon in the field, one lad building there, and one man pitching from the carriage to the rick, may form a party, and their share of the whole work may be let for from 10d. to 1s. per acre. Three carts, and two boys to lead them, and one man and a boy on the rick to build; the day labourers paid in addition by the farmer, who, with these three contract men, form a complete harvest party for the carriage and building of the corn; and a portion of the whole being thus let by the piece, drives the whole along with the force of self-interest.

The thrashing of the several crops is another operation, alike for all. Thrashing by machine may cost from $1\frac{1}{2}d$. to 2d. per bushel, and by the flail from 2d, to 4d. per bushel, according to the sort and its yield. The cost of grain cultivation is considerably reduced by the improved means of realizing the produce which reaping machines and thrashing machines have furnished; but the chief value of the latter is in their enabling an immediate turning of the crops

into the market according to the prices which may obtain from week to week.

One more aspect in which these crops are related to one another exists in the diseases to which they are severally liable. Wheat almost alone, however, of them, is washed and pickled, as they call it, before seed-time; but they are all liable to injury from the disease against which this pickling is directed.

Smut or blacks more especially is common to all alike; it is the result of a fungus named Uredo segetum, which results in the conversion of the whole floret into a mass of sooty dust, which is dissipated generally before the harvest by the wind, so that the sample is not injured by it. Bunt, on the other hand, produced by another Uredo, results in a swollen discolonred seed, which is not necessarily broken by the thrashing, and so, sometimes, finds a flaw in the sample. On the kernel being broken, it is found to be full of a black stinking powder, which, if it gets between the mill-stones, spoils the flour, and so its appearance in the corn is more injurious than that of smat. It can be perfectly prevented by carefully washing the seed, so as to detach or destroy the germs of the fungus, which, adhering to the grain and sown along with it, become absorbed during its growth, bearing their mischievous fruit at harvest time. It is better, for this washing, to use a material of a some-what caustic character, which shall thus more easily and completely detach and destroy these spores and germs without the labour of washing. A solution of blue vitriol, $\frac{1}{2}$ lb. to a gallon of water, thrown on a sack of wheat on the floor, will, on preperly mixing the grain, wet the surface of every separate corn, and thus completely prevent all chance of the crop being affected by the bunt. This is the simplest pickle that is used. To float the grain in salt and water, and afterwards dry it with quick-lime, is not so easy nor so effectual, though it is still a common mede of treatment.

SEPTEMBER.

Harvest work continues, and is generally completed in Southern England, only commencing however, very eften, in some parts of the North. The grain is thatched as soon as it is in the rick. When harvest is over early, stabbles may be pared and burned, lime hauled on to Clover or stubbles to be ploughed in, fallow operations pursued, dung hauled out for spring green crops; Rye and Winter Vetches and Trifolium may be sown.

Rye Grass, and Wheat sowing may be commenced.

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The Horse-labour, therefore, includes plenty of ploughing and cartage; and no month is more laborious in good seasons, when antumn cultivation is possible.

The Hand-labour, too, is laborious enough in harvest work, and in the fallow operations connected with the clearing of stubbles.

Italian Rye-grass.—Though it may be grown as a stolen crop to be mown once and its stubble then ploughed up for Turnips, or even as a green crop to be ploughed under for manure, or as a part of the ordinary seeding of grass land in rotation, or us a part of the seed to be used in laying down permanent pasture, it deserves description, as being a crop fit for cultivation by itself, yielding, after an autunmal sowing, as many as four or five cuttings in the following year of forage, which, if the land be rich and abundantly manured between the dressings, is of unequalled quabty as food for stock. The land should be well tilled and manured, and three or four bushels of seed may be sown broadcast in September; and if three or four pounds of Trifolium incarnatum or White Clover arc sown along with it, the crop is better worth entting next year. There is no crop which will make such full use of whatever manure yen may choose to apply. It covers the ground before winter, and comes to early maturity next spring. If kept well mown down as it attains sufficient head, it may be kept another year upon the land, yielding three or four cuttings. The rapid extension of its growth during the past few years is evidenced by the quantity of seed imported, which reaches now upwards of 40,000 bushels annually, whereas in 1830 only 160 bushels were introduced. The price then was 42s, a bushel, and new it is about 5s, or 6s., varying of course from year to year.

Italian Rye-grass prefers the adhesive class of soils, leams and clays. When sown alone, three to four bushels per acre of seed are used; in mixtures for permanent pasture, six or eight lbs. per acre are enough. When sewn with clovers, one bushel per acre and twelve lbs, of mixed clover seeds suffice. The seed varies in weight, from fifteen lbs. up to as much as twenty-eight to thirty lbs. per bushel. The produce varies from six or seven up to sixteen or seveuteen tons per acre for each cutting, according to the liberality of its treatment; and from two to five cuttings may be had a year, according to weather, dressings, irrigation, &c. When liquid manuro is washed over the land after each cutting, or three or four cwt. of guano or sulphate of ammonia are spread broadcast and then washed in, the largest produce is obtained; and in Ayrshire several farms exist where this method has been adopted with the most extraordinary results as to yield, though with what results as to profit is donbtful,

The following is the history of an acre of such land so treated:—Four bushels of the Rye-grass seed are sown in September and brushed in and watered and left till spring. Its first cutting may be in May, when ten or twelve tons of green fodder are obtained from it, and the land is immediately dressed with three or four cvt. of mixed guano and sulphate of ammenia, and washed in with (one inch deep) 100 tons of water from the tank into which the

water of the cow-house flows. This flooding follows the cutting immediately; the Italian Ryc-grass uses the ammoniacal mixture during the rapid growth which immediately ensues, and it soon covers the land, and hinders the growth of anything else. In five weeks the land will be again covered three feet high with a thick luxuriant growth, weighing at least sixteen to twenty tons per acre. This is cut and followed by another manuring in a similar manner, and a third cut of sixteen to eighteen tons may be expected towards the end of August, and a further manuring gives ten or twelve tons per acre in October. In spring another dressing with water and manure gives a cutting towards the end of April, and a second and third

eutting may be had in like manner, producing forty-five to fifty tons per acre, by the end of August. The land may then be broken up. During the two years that acre will have yielded between 80 and 100 tons of green food per acre, in seven or eight cuttings. By the use of a ton of guano, sulphate of ammonia, gas-water, &c., washed-in well, 700 tons of water and liquid manure, Mr. Telfer stated that his seven Scotch acres yielded 270 tons per annum.

When Italian Rye-grass is not liberally treated as to manure, it is liable to run to seed stems and straw, and to

disappoint its cultivator.

OCTOBER.

This is the seed-time for Wheat and winter Beans (see February), for various winter-sown spring forage crops, as Ryo and Vetches, and the time for autumn cultivation, so that it is necessarily full of labour. There is a great deal also done this month in preparation of land for the Beans, Oats, Carrots, Mangold Wurzels, &c., sown next spring.

The Horse-labour, therefore, includes preparation of land for sowing Wheat and winter Beans, ploughing and cultivation of stubbles for the fallow crop of next year, and hauling out manure to the lands, to which, for these crops, it is to be at once

applied.

The Hand-labour includes Potato digging, and all the labour of autumnal culturo.

Wheat Culture is carried on successfully in every county in the United Kingdom. The fitness of climate for it is not so much a question of latitude as of elevation. There are districts in Devonshire quite as unfitted for Wheat culture, on account of climatal difficulties, as any in Scotland. During the past year the climate of most of the country has been on the very edge of that beyond which Wheat will not ripen, and accordingly the Wheat harvest

has been almost unprecedentedly late.

The choice of a variety of seed is determined as much by the soil as by the elimate. As a general rule, Red Wheats are hardier than White; and, both on poor land and on fenny soils, especially in England, Red Wheats are preferred; they are less liable to mildews and to blights, and some of the sorts are more productive. The White sorts, on suitable soils, are of course more valuable per acre; for a sample of Fenton White Wheat, shown along with one of Browiek Red, or perhaps along with one of the so-called Cone Wheats, presents as good an ordinary contrast as can be desired to illustrate the influence of quality upon sale. Several years ago, reports were obtained by the Highland Society of the relative merits of the Wheats then in cultivation, and the so-called Hunter's White Wheat proved in every case the most valuable, taking bushels and quality both into account. Since then many new sorts have been grown, and Browick, and Spalding, and Nursery, and Shirriff's new Red Wheat, and the April Wheat, also a red sort, are all first-class varieties of that class, while Fenton, Hopetoun, Velvet Ear or Rough Chaff, Red Straw, White, and many others are first-class White Wheats. For rich and straw-growing soils, the Fenton and the Velvet-eared White Wheats, and the Piper's Thickset, and the Spalding Red, all naturally short-strawed sorts, are to be preferred.

The land to bear Wheat may be after Turnips, Mangold Wurzel, Beans, or Clover. The Mangolds are pulled and carried home in October and November; their leaves may be either earried off or scattered evenly and ploughed under. If carried off, the land may be simply eultivated with the searifier, and at once sown with the Sutfolk drill. If the land be in good order and well drained, and the seed be sown early in October, one bushel of grain per acre (which contains 600,000 seeds, or about fifteen seeds for every square foot) is sufficient seeding. If sown later, it may be well to sow six peeks per acre. When Turnips are the preceding erop, a part is often fed upon the land by sheep, and the seed-time may be put off till January or February. After Beans, which have been manured in the drills, the land may be cross-ploughed if the ground be well drained, and the seed sown or drilled after a harrowing,

and left without water-furrows; or it is ploughed so as partly to cross the drills, still retaining the direction up and down the slope in ridges, one perch wide, which are harrowed, and sown, and water-turrowed; or, as is generally the case in the English culture of the Bean crop, which is sown either in nearer drills or even broadcast, leaving a stubble not so clean as may be desired; these stubbles are searified, and pared, and barrowed, and burned, and then

ploughed in ridges as aforesaid.

In ordinary management in England, however, Wheat comes after Clover. Patches of couch or other root-weeds are forked out after the haymaking, and the land is manured and plonghed in ridges about 52 yards wide, a skim coulter being used, by which the grassy side of the furrow slice is completely buried. In light soils the drill presser, following every other plough, presses home the furrow, and seed may be sown broadcast with the certainty of its falling into these drills and coming up in rows; but, commonly, the land lies a month or six weeks, and is then harrowed down, and the Suffolk drill is used to sow the seed. The condition as to wetness in which the soil may be for Wheat, is not of any particular importance when sown in Autumn. It may, indeed, be so fur wet as to cause some poaching by the treading of the horses without any harm coming of it. As to the proper seed-time, the object should be to have the young plant so far forward that in Spring it shall be in a condition to make the full use of the circumstances of Spring-time. Whenever Spring comes in the guise of Summer (as in some other countries), it is best to have a grassy full-grown plant fit to use all favouring circumstances of temperature and soil. When Springs are cold and backward, it is not of such importance to have an early plant. In the former case, Spring-sown Wheat will not produce a harvest; in the latter, Spring-sown Wheat is often as productive as any other.

The seed is to be pickled as already described (August), as a preservative against bunt, and when properly prepared it is sown by the Suffolk drill in rows, which may be a foot apart. An experiment by Mr. Morton, of Whitfield farm, in Gloucestershire, in which intervals at 6, 9, 12, 15, 18, and 24 inches were used, led to the conclusion that the interval of 15 inches was the best. In Spring-time the land is harrowed, or hood, and rolled, and if very luxuriant, it is fed down by sheep, or flagged with a hook, or mown with a seythe (see May). The erop is ready to cut as soon as the grain will no longer yield a milky juico on being squeezed between the fingers. It has been proved abundantly that the last process of ripening is to form a

coating of woody fibre at the expense of the flour of the seed; and this, though possibly conducive to the fecundity of the grain, as seed, is injurious to it as food. It is hest, therefore, to out the Wheat crop hefore the green colour has entirely left the straw; that is better fodder, and the grain is a better sample for this early cutting. The work of harvesting has been already described. The erop may be 20 bushels, or it may be 50; a good crop is 5 quarters per acre. There are more acres growing Wheat now than there used to be, and its progress probably extends with every extension of good agriculture. Thus, during the three

years of the Scottish Agricultural Statistical Inquiry, it measured from $4\frac{3}{4}$ per cent. of the arable land in 1854, up to $7\frac{1}{2}$ per cent. in 1857, the average in these three years being 168, 191, and 202 thousands of acres respectively.

The application of manure to Wheat may be so far referred to, as simply to declare that it is the general experience that in wet seasons 1 cwt. of sulphate of ammonia, or 1½ cwt. of nitrate of soda, or 2 cwt. of Poruvian guano, applied broadcast before or after Spring harrowing, are, on lands needing manure, amply ropaid in the crop.

NOVEMBER.

Wheat-sowing before winter should be finished in November. It is the harvest month for all kinds of roots. Potatoes should be all up and in safety early in November. Mangold Wurzel should be pulled and pitted. Last year a great destruction by frost took place in the last week of Octoher. All Swedes which it is intended to harvest should be pitted as soon as possible. Carrots and Parsnips should be dug.

The Horse-labour includes, therefore, a great deal of cartage, and besides this, there is the ploughing and cultivation still

pursuing of the stubbles, and of leas for Oats.

The Hand-labour of this month is very lahorious wherever a great deal of the root crop is pulled and carried home. It includes too a good deal of work connected with the thrashing of grain, which now proceeds, if only for the provision of straw for cattle, which are now brought into their winter quarters.

Tillage.-We place a short account of this subject here, notwithstanding that it is earlier in the year when it is most available. The powers of a soil, both as a laboratory in which food for plants is prepared, and as a warehouse in which it is stored, depend on the quantity of internal superficies which it contains. All surfaces have great attractive power, by which they retain the particles which touch them. It is this surface attraction which causes water to rise in the sponge; and when the quantity of internal surface is very great in a given quantity of any porous hody, it exerts enormous power of retaining and absorbing that which it holds. A clay holds firmer than a sand what it contains, just hecause of the enormously greater surface in a given quantity of it, which, owing to its much finer particles, it possesses. And it was Jethro Tull who first attributed the fertilizing effects of tillage operations simply to their influence in breaking down the soil, and so increasing the extent of inner surface which a given quantity of soil would then contain. This greater surface both attracted and collected a greater quantity of the fertilizing particles of the air, and gave greater scope for the rain-water to dissolve out the fertilizing partieles of the soil, and it afforded a greater pasturage, so to speak, from which the roots of plants could gather the greater abundance of food which was thus provided for them. And after all that has been said and written since Tull's time, this is as nearly as possible all that can be said of the way in which fertility depends on tillage.

Tillage includes those field operations of the farm whose object is the production of tilth,—a state in which land, neither hardened by drought nor saturated with water, is so far reduced to powder that air and moisture have

free access throughout it.

Some years ago, in a lecture before the Highland Society, Dr. Madden, now of Brighton, exhibited diagrams in which he represented soil in the state to which plonghing, harrowing, and rolling bring it, as actually observed under the microscope. His figures represented it as a collection of particles full of pores and cavities, the channels between the particles being filled with air, while the particles themselves were saturated with water. It is prohable that, to some extent at any rate, these diagrams were speculative—not strictly pictures of what the microscope really exhibited; but it is certain that they tally in some very important points with the known results of tillage operations on the soil. Thus, in the first place, well-stirred soil holds more air than it previously did. This will be plain to any one who shall dig a hole in the hardened ground, and then attempt to restore the oarth he has taken out: the heap

remaining over, which he cannot replace without pressure, thus obviously indicating the hulk of additional air which has been introduced into the land by disturbing it. And that by tillage the quantity of moisture retained by the soil is greatly increased, is plain to any witness of the effect of horse-hoeing between the rows in a turnip field previous to and during a drought. That both air and moisture should be more largely held in a soil after tillage might be expected from the fact that all tillage operations, by reducing clods and breaking up fragments in the soil, and so multiplying the number of particles in a given quantity, increase the quantity of surface within the soil—that internal superficies, as Jethro Tull ealled it, on which, as he saw, the quantity of food for plants which the soil provides so materially depends, and on which, as we now know, not only does the extent of pasturage for roots depend, but the quantity of that absorptive power as well, which enables the soil to gather from the air ammoniacal and other matters fit for

If we still use the language of theory, then it appears that tillage promotes fertility by increasing the quantity of surface within the soil off which rain-water can wash the food of plants already there, on which, by direct attraction, atmospheric food for plants will gather, and by means of which the vegetable and other matters eapable of supplying food for plants are spread out for more easy treatment by the chemicals of the air, the water, and the As to the influence of air and of rain-water upon the mineral matter in the soil, the actual manufacture of the soil from the parent rock is a sufficient illustration; and their influence on the vegetable matter in the soils is proved by the disappearance of the manure which we apply, and by the fact, of which the chemist tells us, that while there are only four parts of carbonic acid gas in 10,000 parts of common air, that taken from a soil manured seven months hefore contained twenty times as much, while the air of a recently manured soil holds 200 times the quantity of carbonic acid, the product of the chemical decomposition of vegetable fibre.

The real extent, therefore, of any farm, is not merely that which meets the eye, or is exhibited on the map; it is the quantity of inner surface on which the roots can feed, as well as the quantity of outer surface on which the crop can ripen, that ought to be taken into account, and that is taken into account when anybody goes on the land

to value it.

The truth, in short, may be represented thus:—The increase of our crops, in so far as it depends upon the soil, depends on that which water can extract from it, for it is

only what is soluble in water that is useful to the growing plants; and thus fertility bears a very important relation to the quantity of the land-the quantity not merely considered as so many cubic yards, but rather as furnishing so much internal surface on which water operates as passes by. Drainage incresses fertility by inducing this passage of the water, and tillago increases fertility by facilitating this passage, and by multiplying the sur-

face by which it passes.

And this is true, notwithstanding that some tillage processes seem to act in other ways than by loosening tho ground. Ploughing, harrowing, and scarifying the land act apparently as dividers and looseners of the soil, while rolling and pressing, also important tillage operations, seem to harden it. It must be remembered, however, that the object of cultivation is not merely, in general terms, to provide constant and liberal supplies of food for vegetable growth; the object of the cultivator is to procure a crop of a certain plant; the particular habit of growth which nature has conferred upon that plant has therefore to be consulted, as well as the laws affecting vegetable growth in general; and hardening of the soil may be required in particular cases, as that of wheat, while a looseness of the soil, as in that of turnips, &c., may be desirable in others. We must accommodate ourselves in be desirable in others. this to those wants of the plants we cultivate, which must be taken as ultimate facts resulting from the character they have inhorited.

Rolling nevertheless has this in common with the strictly tillage operations, that it reduces clods and masses into particles and powder; it breaks old contacts and effects new ones within the soil, and so, like ploughing, harrowing, and stirring, multiplies the active surface within the soil. And thus it does in fact stimulate that chemical action within the soil on which fertility depends, just as much as that is done by stirring it with plough and harrow.

But let us leave the definitions and explanations of the theorist, and hear the purposes of his tillage operations from the practical man. He says, "I plough to cut off from the general mass of matter a definite layer on which I can afterwards operate more efficiently; and the purposo of these subsequent operations is to remove the untural growth of the land, and so far to reduce the soil in which it grew to powder, as that rain shall easily permeate the whole without clogging it together. I plough to bury the manure which I lay upon the surface so prepared. I plough to lay up the land for exposure to that most efficient of all tillage processes, the alternate rain and drought, warmth and frost of weather. I harrow in order that the clods may be broken which previous operations may have failed to break, and in order that the weeds and filth may be dragged to the surface which previous operations may have failed to remove. I roll, too, in order to break surfaceclods, in order to keep-in moisture, in order to level the surface for the even action of other implements, the cultivator, the reaping-machine, or seythe; in order to confer that hardening of the land which some plants require. The object of my tillage operations is to remove all weeds, to bury manuro, to prepare a seed-bed, to have a softened soil in which my plants can swell with unrestricted growth. The seeds I sow need to be in contact with an and moisture in order to their permeation, and they must therefore be covered with particles of moistened earth smaller than themselves; and thus the smaller seeds, as those of Grass, of Clover, of the Turnip, need a finer tilth than the larger seeds, as those of Barley. And as after germination the young plants need scope for the ready extension of their roots and stems, so tillage operations are needed deeper before seed-time than the mere act of germination would demand; and they are needed after germination, especially in the case of large-stemmed plants, as the Turnip, the Potato, or the Mangold Wurzel, in order to permit the easy enlargement of those parts whose growth I want. But, from the beginning to the end of the annual tillage of my land, one object of all my tilling operations is the destruction of weeds."

A writer on Bare Fallow some years ago, evidently taking his one from the report of the mere labourer as much as of the intelligent practical farmer, enumerates all the supposed objects and effects which the chemistry of those days suggested, as the aim and end of the residts of cultivation which the process involves, only to exclaim, in derision of them all, "The sole purpose of fallowing is to destroy them all, "The sole purpose of fallowing is to destroy weeds!" The destruction of weeds is an object of tillago operations certainly, and if they cannot be destroyed year by year under good farm management, the gradually increasing accumulation requires this periodical bare fallow to effect their destruction, and so far the Reviewer was right in his assertion; nevertheless the main object of tillage operations is not to destroy, but to produce, to increase the quantity of food within the land in order to its conversion into food for man and beast by plants upon its surface.

It is plain that the practical and the theoretical accounts of the matter are perfectly consistent, and tillage operations have at once the effect of forming the seed-bed, of loosening land to enable unrestricted growth within it and upon it, and of destroying any plants but those we wish to grow; at the same time that the soil, by the reduction of its substance, is thus enabled to present within a given bulk a greater quantity of surface, so as to act as feeding ground for plants and as a warehouse of their food. Both farmer and philosopher will thus agree in the effects of deep and thorough tillage of the soil.

As to the practical methods to be adopted in order to attain the condition which we call tilth, it is only necessary to refer to the fact that in the course of half-a-dozen years arable land generally receives a dozen plonghings, twenty to thirty harrowings, besides sundry scarifyings and horse-hocings, and repeated uses of the roller both in drought and directly as a tillage implement, in order to prove how cumbrous a process tillage generally is. Tho increased use of the scarifier as compared with the plough, and the extension of Autumnal culture, seem to be the principal moves towards simplifying the process of late years. Add to this, the adoption and extension of steam culture, and the improved drainage of the land as facilitating all these operations, and it will be admitted that progress hitherto has not been small. Great economy is obtained by properly timing the uses of all these opera-tions. Besides the need of fitting what is done in the field to the actual weather of the day, there is the need, especially on clay soils, of fitting the great tillago operations of the year to the average weather of the season. There seems an advantage on clay soils in the deep and thorough tillage of the stubble when dry in Autumn, which is so remarkably greater than the advantage of the same processes at any other time, that some special explanation seems almost to be needed. The explanation probably, however, is no other than that which ordinary tillage operations receive, the greater effect arising from its being done in the dry, and followed by the frost. Whatever the explanation may be, the fact is unquestionable, and any means of cheapening Autumn tillage, or of increasing our power at that season of the year, will be welcome to all clay-land farmers. These means exist in the application of steam power to cultivation. Whether hy Fowler's or the Woolston apparatus, it may now bo generally believed that by steam power land can be better ploughed and better cultivated, more cheaply ploughed and more cheaply cultivated than by horses.

DECEMBER.

The winter's work has now fairly set in, and earriage of materials, of grain, of dung, of marl, and elay, and lime, with occasional ploughings of the stubbles when the weather permits, occupy the horses.

The Hand-labour is confined to attendance on stock, to thrushing grain, to mending roads and fences, and to land drainage.

Land Draining.—This, on all soils where there is no natural drainage for the rain-fall, is now universally considered an essential to good agriculture. A short reference to the theory and the practice of it therefore must be permitted in our Calendar.

It is properly Winter's work; the ground is softer and more easily dug; the land is wetter and betrays more plainly the need of the operation; water gathers, and there

is no levelling needed to show the "fall,"

(1) Let us first refer to the theory of the eperation, Rain-water is needed to feed the plants, for it contains oxygen, carhonic acid, ammonia, and nitric acid, so that it not only acts chemically on ingredients in the soil which it thus prepares as food for plants, but it is itself, in respect

of some of these ingredients, the feed of plants.

Water gets into the soil as rain-fall on its surface, as spring-water rising from below, and by capillary attraction drawn up from below. Water leaves the soil by running over its surface, in which case it leaves its work, as the feeder of the plants, altogether undene; by evaporation from the surface, in which case it reduces the temperature of the land; and by percolation through its substance, warming the soil in its passage, introducing its own ingredients as well as the air which follows it, and feeding the plants with the substances it has dissolved from the land as it passes by their roots. Notwithstanding that on its escape, after percelating through the seil, it contains, dissolved in it, a considerable quantity of fertilizing matter, yet this is not nearly so much as would be expected by a person ignorant of those absorptive properties of soils, which Professor Way has investigated, and by which the ammonia, both of rainwater and of manure, is retained in a comparatively insoluble state, so that the percolation of water through the land is not so wasteful a process as it otherwise would be. It is this absorptive property of soils that explains that great agricultural paradox which meets the student on the very threshold of his readings on the chemistry of agriculture. He is told that agriculture is simply a feed mannfacture; that the produce of its processes is made of materials existing in the air and soil; that only substances soluble in water are available for this purpose; and yet, of the whole mass of mineral matter concerned in this manufacture, not only does he find that it is thinly spread as a soil some 6 or 8 inches thick in a layer over an enormous surface, and then washed annually by 4 or 5 times its own bulk of rain-water—one of the most powerful natural solvents—but that positively this manufacture is most productive, its produce largest where this solvent is permitted to run through the land in its escape downwards to the sea. Fresh from the manipulations of the laboratory, acquainted with the processes by which precipitates are deprived of any soluble mixtures which they may contain, having himself patiently superintended the washing of earthy deposits on his liter in order to remove any soluble matter which they eontain, how is he to reconcile the assertion of science, that

fertility depends on the preservation of soluble matter in the soil, with that of practice, that fertility depends very materially upon your enabling the water which falls upon the surface of the land to pass through its whole thickness and escape through channels in the subseil? Mr. Way has satisfactorily removed the difficulty. Not only does rainwater, when allowed to traverse this layer out of which our food is made, improve the underground elimate, on which, as we know, the luxuriant growth of plants materially depends; not only does it by its passage act as waiter at the repast, carrying food to the roots of the growing plants; net only does it bring to the soil the riches of the air, and so add to its wealth as a well-filled stere-room; net only does it, by the addition which it thus supplies and the activity which drainage gives it, and its own selvent powers, make the whole an entire laboratory in which food for plants is being prepared for use; but its liability to wasto the centents of this store-room and the products of this laboratory, by the access and egress which it possesses, is held in cheek; so that a fertile well-drained soil is really not only one of the pleasantest sights on which the eye can rest, but one of the most beantiful specimens of ingenious and conservative contrivance on which the mind can dwell.

(2) In practice, this percolation of rain-water through the soil on which it alights, is obtained by digging drains 4 feet deep and from 18 to 20 feet apart, placing in them 2inch pipes, having first provided an nuchecked outfall for them at the lower end of the field. The results of this expedient are, that we have greater facility and economy of cultivation; tillago is made both easier and more efficient; and we have a changed climate-one which, if it be not changed to the feelings of animals, is wonderfully changed as regards its influence on plants. The difference of a few degrees in the underground climate of the soil causes a most material difference in the regions of vegetation and the fitness of the land for petato crops. The mean temperature of the soil round Edinburgh is stated to be 52° during the summer months. It is on the authority of Dr. Lindley that we learn, if it were to fall to only 47°, it is doubtful if wheat would ripen well, or indeed at all. And the earliness of harvest, which is due to drainage, is owing not only to an improved underground climate, but also to the constant feeding of the plants which we thus obtain. In undrained land we have occasional starvation of the plants; and comparing growth to an erection, and ripening to its completion, the process is the sooner finished, and more complete when done, for its continuous presecution. These are the three great results of artificial land-drainage when no natural drainage exists—cheaper cultivation, better underground climate, and continuous and abundant plant-feeding. They produce amongst them an earlier and more productive harvest, and justify us in describing the drainage of wet and drying soils as a fundamental agricultural necessity.

PARMENTER'S PATENT PREPARATION.

We wish to direct your attention to the above Preparation we are now selling for the destruction of Mealy Bug, Red Spider, Thrips, Scole, Aphis, and all kinds of Insects, also Mildew on Vines, Fruit Trees and Plants of all descriptions, of which we are the Sole Proprietors; it has been proved to he the most effectual application ever offered for the destruction of Insects.

LIST OF PRICES.

Small Stone Bottle with Brush, 2s. Middle ditto, 3s. 6d. Large ditto, 10s. 6d.

The following is the report of a series of careful and elaborate experiments by the eminent Nursery Firm of Messrs. E. G. Henderson and Son:—

PARMENTER'S PREPARATION.—We find this Compound effectual for the destruction of White Bug and Scale on leaves of a laurel-like texture, such as Daphne, Nerium, Jasmin, Enkianthus, Rhododendrons, Thibaudias, &c., in the greenhouse, and such as Ixora, Croton, Franciscea, Gardenia, Jasmin, Magnotia, Portlandia, Stephanotis, &c., in the hothousec, when dipped in a thin paste-like liquid, and applied with a brush into the inward axillary joints: after thus remaining on the plant 8 hours, it is thoroughly cleansed off by a vigorous syringing. When applied to plants within a cool genial greenhouse temperature, it emits no affensive odour (as in the Gishurst Compound), and is efficacious without injury to the plants. On plants of Josminum yrandifforum recently imported from the Continent, and completely covered with Scale, and on Ardisia crenulato, much infested with the White Bug, the Preparation as observed was very satisfactory. It also appears effectual in destroying and checking the Red Spider and Thrips, by immersing the branches once or twice in a thinner solution of the Preparation.

On plants with leaves of a less leathery and more porous texture and thin and pulpless, the Preparation cannot be applied sufficiently strong at one immersion to destroy the White Bug or Seale (the most difficult of all plant insects to destroy) without injury to the plants; therefore it should be made in a weaker solution, and applied with a soft brush or sponge to the infected parts, remaining on 24 or 48 hours as before. For the continual cleauliness of the plants, a solution of the Preparation in pure water for occasional syringing will be found very heneficial and act as a check ond preventative. In the destruction of the White Bug and Brown Scale upon the class of plants referred to, Parmenter's Preparation was found more

effectual than the Gishurst Compound. In its application the following directions may be deemed safe:—

1st. The strength of the application, without injury, will be in proportion to the thick coriaceous or leathery texture of the leaves, their dormant condition or rest from growth, and vice versā.

2nd. The injury arising from its undue application will be in proportion to its action on the soft and delicate cellular tissue

of the plants, whether in a growing condition or not, but most injurious in the former.

3rd. As a general rule, plants of the strongest and most robust growth will require it to be applied of the consistency of thin paste-like liquid.

4th. Plants of the soft-stemmed class, whether heavy or soft, will require its application by immersion in a mixture proportionately diluted to suit the texture of the plants.

Extract from a letter received from Mr. Thomas Rivers, Author of 'The Orchard House,' the Nurseries, Sawbridgeworth, Herts:—

"One Application of the Composition unoiluted to some Orange Trees infested with the Brown Scale effectually destroyed it; a small painters' brush was used in opplying it."

Extract from a letter received from Mr. Summers, Gardener to A. Mongredien, Esq., Sydenham, "the raiser of Spergula pilifera:"—

"WITH RESPECT TO THE DESTRUCTION OF INSECT LIFE, ESPECIALLY OF THE SPECIES AND VARIETIES OF COCCUS, WE THINK IT FAR SUPERIOR TO THE GISHURST COMPOUND, AND IT LACKS THE VERY DISAGREEABLE SMELL OF THE LATTER."

PATENT APHIS PASTILLES.

The only Cheap means of Smoking a Greenhousc. Half the price of Tobacco—infinitely more effective—destroy all Insects, and cannot injure the foliage. These Pastilles light with a candle—need no further attention. Price 2s. per packet.

DUNN'S PATENT SOLID MARKING-INK PENCILS.

Directions for Use.—Slightly damp the surface of the Tally or Label, whether of Wood, Parchment, Zinc, Galvanized Iron, or unglazed Porcelain, with the wet finger, and write thereon whilst damp; expose the writing to light in a dry place (Sunlight if possible), and it will become fixed and permauent. N.B.—Do not screw the Pencil Point out too far when in use. Price 1s. 6d. each.

FIN18.

ILLUSTRATION No. I.



ZINNIA ELEGANS FLORE PLENO (Carter's variety), per packet 6d. and 1s.

NEW SPECIES AND VARIETIES OF FLOWER SEEDS.

The subjoined Seeds we have selected for recommendation from their being either desirable new varieties or old-established favourites highly improved by careful cultivation. We regret to mention that, in consequence of insufficiency of space, we are unable fully to describe the particular merits of each kind, and can only state that all the undermentioned describe unqualified praise.

ILLUSTRATION No. I.

Zinnia elegans fl. pl.

Received a First-class Cerlificate

From the Horticultural Society of London, who described them as follows :-- "These were varieties of the well-known Zinnia elegans, in which the yellow centre or dise was transformed into florets, like those of the ray, so as to form rosettes of from 2 to 3 inches in diameter, and of various shades of colour, embracing purple, deep rose, light rose, mottled rose, red, orange, and buff. They were for the most part full double, and perfectly regular in form, a good deal resembling in their outline a fine double French Marigold, but larger in size." This magnificent novelty was first introduced by us into England, and our stock is undoubtedly the finest in existence; all single flowers have been removed, and the seed is saved from five double flowers only. Price per packet, 6d. and 1s.

ILLUSTRATION No. II. Clarkia pulchella flore pleno.

Received a First-class Certificate

From the Royal Horticultural Society of London, and described in the Society's Report of July, 1861, as follows: "This was a handsome variety of the deep rosy eolour of the better forms of this well-known species, but having three or four whorls of petals, developed so as to form a tolerably full double flower; it was a very showy plant, and was awarded a First-class Certificate."

This is but the 3rd Annual which has received a Firstclass Certificate; it is thus spoken of in the Gardeners' Chroniele, p. 869:—"The double variety of Clarkia pulchella, a new and desirable plant for ornamental purposes of all kinds, the flowers being very double, and the colour a rich Magenta." Price per packet, 1s.

ILLUSTRATION No. III. Enothera Lamarckiana.

" Commended"

By the Royal Horticultural Society. Hardy biennial, flowering the first year, height 3 fect, good shrubby habit; blossoms more than 3 inches in diameter, colour bright golden yellow; each plant will produce from 200 to 600 flowers, and continue in bloom from June to November. Dr. Lindley speaks of it in the Gardeners' Chroniele of 28th of Sept. 1861, p. 869, as follows :- "Among dwarf Œnotheras, macrocarpa still stood in the front rank, and among tall kinds Œ. Lamarekiana occupies a similar position; it blooms the first year from June to October in great profusion; individually the blossoms are of immense size, averaging 4 inches in diameter; on one plant alone of this variety we counted no fewer than 23 blossoms, all open at the same time." Price per packet, 1s.

Grammanthes gentianoides cinnabarina.

A handsome variety of the much admired Rock and Pot Plants, Grammanthes gentianoides, deserving of universal ltivation; colour erimson-searlet. Price per packet, 6d .

Tropæolum "Crystal Palace Gem."

Thus described in the Report of the Royal Horticultural Society of London: -" This was one of the Dwarf or Tom Thumb varieties, and was stated to have been obtained from T. Scheuermannianum. It was of dwarf habit, with large sulphur-coloured flowers, with a dark red spot at the base of

each petal."

It is very pretty and effective as a bedding plant, the flowers being well thrown up above the foliage, and it continues in bloom until the frost. It is thus spoken of in the Gardeners' Chronicle, p. 869:—"Then came 'Crystal Palaee Gem,' a new bright sulphur-coloured Tropwolum, blotched with maroon; the habit is excellent, and the leaves much smaller than those of the common Nasturtion, over which they have the advantage of throwing their blossoms well up above the foliage;" seed searce. Price per packet, 6d.

Senecio elegans flore pleno. "Magenta."

This is a very double variety of the well-known Jacobæa; colour a bright rich Magenta, contrasting admirably with the foliage; will be found a very useful and ornamental bedding plant. It is described in the Gardeners' Chroniele, p. 869, as follows:--" Attention was then directed to some charming beds of Seneeio, the most striking of which was one of a brilliant Magenta colour, literally one mass of bloom." Price per packet, 6d.

Alyssum saxatile compactum.

Described in the Gardeners' Chroniele, p. 869, as follows: "A fine early-blooming hardy percunial, which will form a good companion to the early white Arabis alpina, and the

pink Saponaria ocymoides."

We can especially recommend this desirable hardy perennial as being particularly useful for early Spring bedding, also for Rock-work; it is dwarf, and very compact in habit, with ornamental glaucous evergreen foliage, profusely eovered with rich golden yellow blossoms, continuing in bloom from March to May, a period of the year when outdoor flowers of a showy character are very scarce: this variety is entirely distinct in habit and colour from the Alyssum saxatilc. Price per packet, 6d.

Nemesia compacta insignis, Nemesia compacta La Superbe.

These are two new varieties of that charming Annual Nemesia elegans compaeta; their graceful and compaet habit, like Thuja compaeta, and their profusion of blossom render them valuable adjuncts to the flower garden; they also form excellent pot plants.

N. La Superbe, delieate rose height I foot. N. insignis, bright blue

Priee per paeket, 6d.

Aquilegia caryophylloides fl. pl. "Commended"

By the Horticultural Society of London, and described by them thus:—"This was a very pretty double-flowered va-ricty of the common Columbine; the flowers were white, variously striped with reddish erimson, and here and there with reddish purple, producing an effective variegation. It was stated to have been selected out of a bed of mixed colours, and to have been proved to come true from seed. It was also stated to be quite distinct in the secd, which is of a light green, instead of being black, as is usually the case. The variety was cousidered distinct and handsome, and was commended." Price per packet, 6d.

ILLUSTRATION No. II.



CLARKIA PULCHELLA FLORE PLENO per packet Is.

NEW SPECIES AND VARIETIES OF FLOWER SEEDS (continued from page 114).

Trifolium arvense.

This is a remarkably elegant Arabian Ornamental Grass; very dwarf and compact, silvery foliage and flower-stalks, with a profusion of minute heads of blossom, similar to Lagurus ovatus, but more slender. Price per packet, 6d.

Enothera campylocarpa grandiflora.

This is a marked improvement on the old Enothera campy-locarpa, and the colour, which is *crimson-orange*, is a striking novelty among Enotheras; the blooms are 2 inches in diameter. *Price per packet*, 6d.

Nemophila maculata folio variegata.

This is a very useful Annual for Spring gardening, the leaves being ornamentally variegated before the plant comes into bloom; seed searce. Price per packet, 6d.

Covent Garden Intermediate Stock.

Of these we have two splendid varieties, the same as those so much approved of at Covent Garden Market, one scarlet, the other pure white. Price per packet, each 1s.

Hunnemannia fumariæfolia.

This is a most desirable re-introduction: it has the foliage of the well-known Eschscholtzia, but is of an ercet habit and has numerous blossoms of bright yellow; similar in shape to Tulipa sylvestris. Price per packet, 6d.

Linaria bipartita splendida. "Commended"

By the Horticultural Society of London, and described by them as "a very-fine and richly colonred Annual, flowering profusely and continning for a considerable time in bloom; the habit was erect, like that of the older forms, and the flowers were large, of a very rich deep purple colour. Messrs. Carter & Co. stated that they had full confidence in its being fixed in character, as it had been carefully selected for the last 7 years: this received a commendation." Price per packet, 6d.

Convolvulus tricolor subcaruleus.

A very pretty dove-coloured variety, having about half the depth of colour of Convolvulus minor, blue. Price per packet, 3d.

Convolvulus tricolor monstresus.

Described in the Horticultural Society's Report as "Very robust, with large and exceedingly rich deep-purple flowers." It is also mentioned in the Gardeners' Chronicle of July 28th, 1860., as follows:—"A-handsome Convolvulus, named tricolor monstrosus, was shown by Messrs. Carter & Co., of Holborn." Price per packet, 6d.

Erianthus Ravennæ.

This is a splendid Ornamental Grass, similar to the Pampas Grass, but with a broader leaf, with a white rih down the centre of each hlade: for centres of lawns and coraers of large beds it is specially adapted, and is very graceful. Price per. packet, 1s.

Erysimum Arkansanum.

This Annual has been much overlooked, and will in future rank among the finest of yellow flowers: height about $1\frac{1}{2}$ ft.; colour rich golden yellow: blooms in bunches, like the Perennial Phlox. Price per packet, 6d.

Gilia achilleæfolia alba.

" Commended"

By the Horticultural Society of London, and described by them as "A pretty variety of this useful species, having the flowers pure white: it was commended on account of the purity of its white flowers, which will render it useful for beds where Annuals are employed." This is an early profuse- and long-blooming variety. Price per packet, 6d.

Eucharidium grandiflorum album.

Described by the Horticultural Society of London as "A neat dwarf-growing blush-white variety, which may probably be useful where light colours are in request." This variety is dwarf and compact in habit, and a long and profuse bloomer. Price per packet, 6d.

Eucharidium grandiflorum roseum.

Described by the Hortienltural Society of London as "A blush-coloured variety, apparently rather larger than the foregoing, but more finshed with rose-colour." A plant of each was sent to Dr. Lindley, who speaks of them in the Gardeners' Chronicle of September 22nd, 1860, as follows:—"One of them is white, or nearly so, the other is stained with pale rose; they are pretty and distinct." Price per packet, 6d.

Cuphea zimpani.

This is one of the best of the bedding Cupheas, and, from its profuseness of blossom and duration of bloom, will be much admired: colour fine dark purple. Price per packet, 6d.

Celosia aurea pyramidalis

AND

Celosia, new crimson feathered.

These are really magnificent plants for Greenhouse or Conservatory decoration, and have been universally admired at the various Exhibitions where they have been shown. The one has a rich golden-yellow, and the other a rich crimson plume of blossom. Price per packet, each 1s.

Clianthus Dampieri.

This magnificent plant is too well known to require comment, as it is admitted to be one of the very finest greenhouse plants ever introduced. *Price per packet*, 2s. 6d.

Lapageria rosea.

This superb Climber is one of the few plants that are indispensable to every greenhouse, its rich rosy-marhled tulmlar bell-shaped blossoms continuing in fine condition for six weeks, and altogether it is the finest Greenhouse Climber in cultivation. Price per packet, 2s. 6d.

Delphinium grandifiorum cœlestinum.

A new variety of this handsome hardy perennial with long spikes of clear celestial-blue flowers. A very desirable variety for borders and shrubberies. *Price per packet*, 6d.

Camellia japonica.

The seeds now offered were saved in one of the Royal Gardens in Italy, and probably from the finest collection of varieties in that country. The produce from the seed cannot fail to give many valuable and interesting novelties. Price per packet, is.



NEW SPECIES AND VARIETIES OF FLOWER SEEDS (continued from page 116).

Erythrina, varieties.

These magnificent Shrubs, commonly called "Coral Trees," are usually grown in the greenhouse; but in favourable seasons they may with safety be placed out of doors in summer, where their dense foliage and splendid racemes of brilliant crimson blossoms will show superbly. See Nos. 943 to 946. Each, per packet, 1s.

Gynerium argenteum.

This is the Pampas Grass, the merits of which are too well known to need recapitulation. The seed offered, being imported from the district of the River Plate, will be found to germinate freely. Price per packet, 1s.

Linum luteum corymbiflorum.

A handsome half-hardy variety of Flax, with hundreds of bright straw flowers on each plant. This is quite as handsome a variety, of its colour, though different in habit, as the well-known searlet Linum, to which it would form an excellent contrast. Price per packet, 6d.

Pentstemon Murrayanus.

This is by far the most bandsome species of this much-admired genus, having numerous long tube-shaped flowers of a bright vermilion. *Price per packet*, 1s.

SPERGULA PILIFERA.

This admirable substitute for Lawn Grass has stood the severest tests, and is now rapidly rising in public estimation. We annex an Extract from an Article upon it, written by Mr. Shirley Hibberd, in the 'Gardeners' Weekly Magazine.'

LAWNS WITHOUT GRASS.

In making our remarks last week on the causes of the wretched appearance too often presented by grass lawns, and the proper remedies for certain of their defects, we said nothing about substitutes for grass, because the subject is too important to be dealt with in a casual way. The time is fast approaching, however, when we shall have to say, in our descriptions of gardens, what sort of turf is used—the word "turf" having already several different significations. The reader perceives already that we are on the tract of Spergula pilifera, and, mayhap, bas already a feeling of repugnance to any so-called substitute for grass; certainly there is repugnance in many quarters, and we may as well own at once that, for general purposes, a grass turf cannot be superseded by turf of any other kind. But among the large number of gardeners who speak of Spergula as "humbug," how many have really seen it? Of those who have seen it, how many have seen it as it should be seen, and as it may be seen under proper management, well established, and in the best possible condition for a fair judgment of its merits? Very few we imagine. Now seeing is believing, and no one who has visited the gardeu of Mr. Mongredien, at Forest Hill, has been disposed thereafter to say a word against the Spergula, for it is the most remarkable innovation of the present century in the matter of garden furniture. For the information of those who have had no opportunity of making acquaintance with good samples of Spergula, we may state that, as brought to perfection in Mr. Mongredien's garden, it forms a thick, moss-like felt, close as piled veivet, vivid in its greenness of tint, soft and elastic to the foot, dense in growth, and as even on the surface as the smoothest lawn newly mown, but without any mowing at all. This is a land of freedom, and let every man hold and express his opinions freely; but opinions founded in ignorance of facts are worth nothing; but all that has been said against Spergula has been so said, and comes to nothing.

But the great question is, will it supersede grass? For certain purposes it will not only supersede grass, but allow of the accomplishment of what, with grass, it would be impossible. It forms a close evergreen mossy felt; its habit is procumbent; it endures drought with patience when well established; is improved by being rolled and trodden on, and is more uniform in character than any other turf, because formed of one species instead of many. Hence for small lawns laid out for geometric gardens, for broad terrace verges, and for every kind of fancy work, where the most perfect specimens of turfs are essential features, Spergula is as much better than grass, as real grass is better than a turf of crowfoot and camomiles. But it will probably never-supersede grass for large extents of lawns, because its enture is a nicer undertaking. In less than three years we believe it to be impossible to form a dense turf on a large scale, and during that period it would require frequent attention. The original announcement that it needed no mowing, though truthful—for it neither needs mowing, nor would mowing be possible—has nevertheless proved injurious to it. People supposed that as it would not need mowing, it would occasion less trouble than grass, whereas there must be more trouble expended on it to do it justice, and therein lies the secret of sneeess. Being of humble growth and spreading laterally, weeds have their own way amongst it, until it has completely covered the ground and seenred full possession. Grass, plantain, and groundsel are the first enemies that assail it, and with these come the various other weeds peculiar to the district. There is no more important detail in management after planting Spergula than keeping it sedulously weeded, but that task need not alarm intending cultivators; it is a question of labour, and no more than is required in the formation of a turf; the time required will depend a good deal upon the thickness of the original planting. Very small turfs put close together will meet and c

Plants to transplant 2 inches apart, for one acre, £10. Seed mixed with sand, sufficient to sow one acre, £2.

Ditto, for one rod, 7s. 6d. Ditto, for one rod, 1s. 6d.

CARTER'S FLORAL ILLUSTRATIONS.

James Carter and Co. beg leave respectfully to announce that, under the above designation, they commenced issuing in the Spring of 1857 a series of Coloured Drawings (by Andrews), which will be continued with each annual publication of their Catalogues. It is their intention that each Plate shall contain the most desirable novetties of the season, together with any remarkable improvement in the varieties already in cultivation. One of the chief-reasons for the publication of these Illustrations is, that they may serve as a guide to Amateurs and others in the selection of good new Flowers from among the great number sent out annually, many of which are often inferior to the older varieties.

The price of each Plate is affixed, and forwarded post-free on receipt of Postage Stamps to the amount; but should any Customers wish to become permanent Subscribers, if they will kindly write to that effect, the requisition shall be registered, and the Plates forwarded as issued.

PLATE No. 1, published January 1857, price 1s. 6d.,

Contains—Godetia rosco-alba, pure white, Lupinus pubescens elegans, Calliopsis coronata, Leptosiphon densiflorus albus, Obeliscaria pulcherrima, Alonsoa Warsewiezii, Linum grandiflorum verum kermesinum, Salpiglossis, new dark searlet, Aeroelinium roscum, and Violet Truffaut Aster.

PLATE No. 2, published January 1858, price 1s. 6d.,

Contains—Nasturtion, new dwarf crimson, Lupinus hybridus insignis, Lupinus Menziesii, Clarkia pulchella marginata, Indian Pink, white marbled, Delphinium formosum, (Enothera Drummondi nana, Dwarf French Marigold, and New-white Rose Campion.

PLATE No. 3, published February 1858, price 1s. 6d.,

Contains—Tropæolum Lobbii, Caroline Schmidt, Carnations, perpetual or Tree, Carnations, prize varieties, Taesonia ignea, and Ipomwa hederacea superba.

PLATE No. 4, published September 1858, price 1s. 6d.,

Contains—Hyacinths: Panorama, double red, Blocksberg, double blue, Prince of Waterloo, double white, Fireball, single red, Charles Dickens, single blue, and Voltaire, single white.

PLATE No. 5, published January 1859, price 1s. 6d.,

Contains—Gaillardia hybrida grandiflora, Œnothera bistorta Veitchi, New miniature striped Gourd, Lupinus Hartwegi collestinus, Nolana parado a violacea, Dwarf spotted Nasturions, Carter's Tom Thumb Nasturtions, and Fenzlia dianthiflora.

PLATE No. 6, published February 1859, price 1s. 6d.,

Contains—Dwarf German Stock, Finest double Balsams, Marigold, orange French, Lapinus nanus albus, Cosmidium Burridgi, Lobelia formosa, Viscaria celi-rosa alba, and Viscaria Dunnetti.

PLATE No. 7, published September 1859, price 1s. 6d.,

Contains—Babiana villosa, Ixia crateroides, Gloxinia erecta, Helen of Orleans, Ixia maculata sulphurea, Ixia viridiflora, Ixia, var. Dolphia, Tydea, var. Auber, Achimenes, var. Leighii, Gloxinia, var. Madame Thibaut, and Iris pavonia.

PLATE No. 8, published January 1860, price 1s. 6d.,

Contains—Dianthus chinensis Heddewigi, Dianthus chinensis laciniatus, New Hybrid blue-edged Sweet Pea, Lobelia gracilis rosea, Callirhoë digitata, Nigelia hispanica alba, Nigelia hispanica atropurpurea, Clarkia pulchella var. integripetala.

PLATE No. 9, published February 1860, price 1s. 6d.,

Contains—Aster, La Superbe, Œnothera biennis var. hirsutissima, Datura chloranția fl. pl., New scarlet Scabious, Larkspur tricolor elegans, Lychnis Haageana, Spraguea umbellata, and Ipomæa limbata elegantissima.

DOUBLE-SIZED PLATE.

PLATE No. 10, just published, price 3s.

This Plate, which is double the size of the previous Numbers, contains drawings of some of the splendid varieties of French Seedling Gladiolus from Gandavensis: the specimens drawn are selected without reference to price, and may be taken as a fair average of these most beautiful flowers, which may be planted any time from November to April. The following are the names of the Gladioli figured:—

Brenchleyensis.

Rebecca.

Pégase, Achille, Osiris, Madame Lesoble,

PLATE No. 11, published March 1861, price 1s. 6d.,

Contains—Zinnia elegans, double-flowered, Linum grandiflorum, purple, Vernonia noveboracensis, Aquilegia caryophylloides fl. pl., Convolvulus tricolor monstrosus, Hunnemannia fumariaefolia, Gilia achilleæfolia alba, and Linaria bipartita splendida.

PLATE No. 12, published December 1861, price 1s. 6d.,

Contains—Œnothera Lamarckiana and Clarkia pulchella flore pleno.

Report, in the 'Gardeners' Chronicle' of September 28th, 1861, of James Carter and Co.'s Seed Farms.

Garden Memoranda.

Messrs. Carter & Co.'s Annual Grounds, Dedham AND ST. OSYTH, ESSEX. -Some account of what we saw on a recent visit to these interesting seed-producing establishments may perhaps not be unacceptable to our readers. Mr. Dunnett, one of the firm, who for many years has devoted the whole of his attention to the production and scleetion of flower and vegetable seeds on these grounds, showed us many of our most striking and favourite annuals, both old and new, not grown in small patches, but by the acre; and seen in masses of that extent, the different colours, arranged as they were in parallel beds, separated by broad belts of vegetables, were most effective. First came beds of very fine double Stocks in separate colours; then a col-lection of Marigolds, which exhibited ample evidence of the improvement effected in this description of flower by means of years of careful scleetion; the dwarf and yellow miniature French varieties were very double, and so compact in growth that they made excellent beds; African kinds were also beautiful, and nearly as large and double as ordinarysized Dahlias. Attention was next directed to some charming beds of Senecio, among which the most striking was one of brilliant Magenta colour, literally one mass of bloom; others were bright crimson, rose, purple, copper, and white, and the profusion of flowers which each of them produced made them very effective, especially when viewed from a distance. Near these was a magnificent display of the various kinds of Carcopsis, the most striking among which were C. nigra speciosa, rich deep erimson; grandiflora, gold with crimson centre; and Burridgii, the finest of all the tall kinds, brilliant golden yellow with large centre of rich maroon crimson. The dwarf sorts were also remarkably heautiful. Than Mesembryanthemum tricolor and album nothing could be handsomer; of these we noticed large beds, which, when the snn shoue on them, were most effective. Of Linum grandiflorum (rubrum) there was a quarter at least half an aere in extent, and thus seen en masse nothing could be more dazzling, its masses of rich crimson blossoms could be more cazzing, its masses of rich crimson blossoms being most abundant. No difficulty is experienced-here in getting it to grow; the seeds receive no artificial preparation previous to sowing, which takes place in the open ground; and every one of them vegetates. Tom Thumb Clarkia also made a good bed, rich in colour, dwarf and compact. Among dwarf Cenotheras, macrocarpa still stood in the foregoing the contraction of the colour statement of the colour statement of the colour statement. in the first rank; and among tall kinds Œ. Lamarckii occupies a similar position, it blooms the first year most profusely from June to October; individually the blossoms are of large size, averaging 4 inches in diameter. On one plant alone of this variety we counted no fewer than twenty-three flowers, all open at one time. Saponaria calabrica, a plantation two acres in extent, was in full bloom, and literally covered the ground with a dense carpet of rich rosy flowers. The finest sight, however, of all-was the magnificent masses of Tropzolum Ton Thumb, "searlet," of which alone there was about an acre as red as a soldier's coat, and equally brilliant; next came one-third of an acre of "dark crimson," a fine kind of Tropwolum, rich and beautiful in colour; also "Beauty," a yellow variety streaked and blotched with searlet. Then came "Crystal Palace Gem," a new bright sulphur Tropæolum, blotched with maroon; the habit of these is excellent, and the leaves much smaller than those of common Nasturtium, over which they have the advantage of throwing their blossoms well up above the foliage. Less striking perhaps, but not less interesting, was Convolvulus tricolor splendens, a great improvement, especially in point of colour, on the purplish blue Convolvalus minor. Of Tropæoium Lobbiauum "Lillie Selmidt," a trailing variety resembling the Crystal Palace Scarlet, there was a fine mass profusely in bloom. For conservatory or greenhouse decoration, or for festooning over the sides of vases or hanging backets, pathing could be more useful than this plant.

baskets, nothing could be more useful than this plant.
In the single Chrysanthemum Burridgeauum we have also a perfect gem; its large white blossoms, ornamented with concentric rings of various colours, are extremely handsome, and should secure it a place in every garden; the blooms also keep long in perfection placed in water in a cut state. Eschseboltzia tenuifolia, a charming miniature variety, with erect rush-like foliage, seemed admirably adapted for edgings; its colour is clear sulphur yellow, and its height not more than 4 inches. Leptosiphon aureus is another admirable edging plant, covered as it is for many weeks in succession with small stellate golden blossoms. Associated with these was a large bed of Lobelia formosa, an upright growing variety with rich purplish blue blossoms, commender to small in the control of the c somewhat resembling those of L. speciosa but larger. Contiguous to this was a bed of Troppeolum "Brilliant," a fine trailing variety with showy scarlet blossoms and dark green leaves, very distinct from those of other kinds. Passing large breadths of the showy Delphinium formosum and other varieties, Gilia achilleæfolia alba next attracted attention; it has large heads of pure white bloom, and is a very pretty addition to our hardy annuals. Among Lupines, hybridus insignis, purplish rose; L. venustus, mazarine blue; L. tri-color elegans, purple, white, and violet; and L. Dunnetti superhus, red, blue, and yellow, are all about the same height, viz. 2 feet, and have long and beautiful spikes of bloom. Among Statices, plants of S. texana, a useful pink kind, measured from 1 to 2 feet in diameter. A large bed of Convolvulus tricolor monstrosus, with rich deep purplish blossoms 3 inches in diameter, was very conspicuous, as was also the double variety of Clarkia pulchella, a new and desirable plant for ornamental purposes of all kinds, the flowers being very double and the colour a rich Magenta; this reecived a First-class Certificate at a committee meeting of the Royal Agricultural Society. Among Malvaccous plants, one of the most showy was the Red Lavatera, a. well-known and showy annual. Petunias were remarkably showy, and among them were one or twn fac-similes of Mrs. Ferguson, the beautiful purple-striped white sort lately figured in the Florist. Other kinds were crimson, purple, rose, violet striped and white-all the best in their respective classes; and there was also a useful assortment of mixed varieties. Lobelia gracilis crecta, an extremely neat and pretty kind, well suited for edging, pots, or vases, was in fine condition; Nemesia versicolor compacta, one of the most charming annuals in cultivation, formed compact little bushes about one foot high, profusely covered with variously coloured blossoms.

Some very large beds of Parony Poppies in twelve distinct colours were very showy; their hlossoms, being large and brilliant in colour, produced a striking effect. A fine piece of purplish blue Convolvedus minor was likewise most beantiful, as was also a bed of Everlastings, consisting of Helichrysum composition, maximum, macranthum nanum, bracteatum album, Aeroclinium roseum and album. Associated with these was a mass of starry Scabious, the blooms of which form an admirable addition to winter bouquets. Venus's Navelwort, on account of its silvery foliage, bids fair to make a good white edging. Erysimum or Barbarea variegata, with golden striped foliage, likewise makes a useful ornamental edging and riband plant. Near Mr. Dinnett's residence were some fine heds of mixed Sweet William, Indian Pinks, and the variety of Dianthus called Dunnetti,

Report, in the 'Gardeners' Chronicle' of September 28th, 1861, of James Carter and Co.'s Seed Farms (continued).

the darkest-coloured Sweet William known; also Alyssum saxatile compactum, a fine early blooming hardy perennial, which will form a good companion to the early white-Arabis alpina and the pink Saponaria ocymoides. Among Nigellas or Love in a Mist, as they are sumetimes called, was one pure white and another dark purple, both comparatively new kinds.

At St. Osyth, which is 13 miles from Dedham, were ten large beds of the new Stock-flowered Larkspur, in distinct colours, which made an effective display, all of them being very double, resembling in that respect, as well as in the size and beauty of their spikes, Brompton Stocks. Dwarf Rocket Larkspurs were also very pretty, as were likewise the branching and other sorts. Antirrhinums are grown here in quantity, and among them were at least twenty or thirty distinct varieties—some charmingly spotted, and others beautifully striped. To the raising of Pansies attention is also directed, and there were likewise immeuse breadths of Virginian Stock. Of Dunnett's selected dwarf crimson Candytuft, a very handsome sort, there were at least two acres, also large beds of Lobelia speciosa, the fine blue variety so universally employed for bedding-In addition to the above was a hed of Rho. danthe Manglesi, beautifully in bloom, and about an acre of the dwarf spotted Tom Thumb Nasturtium, golden yellow in colour, richly spotted with chocolate. Dianthus lleddewigii, a large bed of extra double Indian Pinks, a collection of eight varieties of Marvel of Pern, and a fine piece of mixed Phlox Drummondi, in every shade of colour, were very attractive. We likewise noticed here a

bed of Leptosiphon hybridus, a charming dwarf annual with a liabit like that of L. aureus, but with colours more varied and beautiful; also a small bed of double Zinnia producing a fine display of flowers, some of which were remarkably handsome and as double as those of a miniature Dahlia, a description of plant now coming into fashion.

As has been already stated, large breadths of the finer varictics of vegetables separated the different kinds of flowers from one another; and among these a few are worthy of no-tice. First may be named Manchester Red, Ivery's Nonsuch, and Turner's Incomparable Celery; the last occupied about 4 acres, and is an excellent solid white variety, now generally grown, more especially for early crops. Not less than an acre was filled with Australian Cress, a good salad plant, and Vcitch's Perfection Pea was also largely cultivated. This, as was remarked last week, endures drought better than most kinds. Of Oxheart Cabbage, an excellent sort, there were about 4 acres, and we also noticed a large quarter of Carter's Early Cabbage, a small, compact, and useful kind, which does not readily run to seed. Of Mammoth Late White Broccoli we observed about 2 acres; and of Lettuces there were some large and improved New Cos sorts, which when better knnwn may become favourites. Of Beets Messrs. Carter have also an excellent medium-sized blood-red kind. Other vegetables are also grown extensively for seed; but these are among the most important. We may add that the utmost care appeared to be taken to keep everything true to name, and that neatness, order, and skilful management were everywhere observable.

COLLECTIONS OF SEEDS.

COLLECTIONS OF VEGETABLE SEEDS				page	56
COLLECTIONS OF FLOWER SEEDS .				- 0	44

MIXTURE OF FLOWER SEEDS FOR WOODLAND WALKS, SHRUBBERIES, &c.

Price per oz. 9d., per lb. 5s. 6d.

Sow in March, April, May and June.

It has often been a matter of remark that, until very recently, no endeavour has been made to impart an air of cheerfulness and gaiety to shrubberies, woodland walks, hedgebanks, railway embankments, natural rockeries, wildernesses, &e., by sowing a mixture of various flowering annuals to bloom at successive periods of the year; and a source of great enjoyment has been thereby neglected; we have therefore much pleasure in informing our correspondents that we now offer a first-rate, well-selected uixture of hardy flowers of every shade of colour for the above purpose, at the very reasonable price of 9d. per oz., or 5s. 6d. per lb., which we doubt not will induce many to avail themselves of the opportunity of greatly improving the appearance of their pleasure-grounds at a very trifling expense. The months of March and April may be considered the best for sowing; which may be done by simply scattering the seed broadcast withant covering, at the rate of about 6 lbs. per acre: if it be desirable that the seeds should be sown later, the operation should be performed in showery weather

1862.

JAMES CARTER AND CO.'S

GARDENER'S AND FARMER'S VADE-MECUM.

CONTENTS.

PART I.

(Page 1 to 72)

COMPRISES

Flower Seeds, Bulbs, and Plants.

Kitchen Garden Seeds, Agricultur	ral S	Seeds, and Culinary Roots and Plants.	
Choice German Flower Seeds page	3	French Gladioli and other Bulbs page 52	
Miscellaneous Flower Seeds	7	Collections of Vegetable Seeds 56	
Flowers having Popular Names		Notices of New Vegetables 57	ı
Choice Carnation and Picotee Seeds		General Vegetable Seeds	
Hollyhock, Tree, and Fruit Seeds		Garden Implements, &c 68	ı
Collections of Flower Secds		Culinary Roots and Plants 69	ı
Greenhouse and other Plants		Agricultural Seeds	ı
Ferns (Illustrated)		Illustration of White Sprouting Broccoli 57	
,			

PART II.

(Page 73 to 94)

CONSISTS OF

A complete Calendar of general Garden Operations for each month in the year.

PART III.

(Page 95 to 120)

IS

A comprehensive and practical Guide for Farm Operations of every description.

Illustrations of Double Zinnia page	113
Do. of Clarkia pulchella flore pleno	115
Do. of Enothera Lamarckiana	117
Notice of New Flowers	114
Spergula pilifera	118